

Db 75 PRRSDDLGYPEGSASTPPVYKWAESLSLLDDQDGINLFRFLKQDCADLLDFWFA 134
Qy 114 CNGFRQMN--LKDTKTLRVAKAIYKRYI-ENNSVVSQKLPATKYRDIKIKQOQTSV 169
Db 135 CSGFRKPEPCVSNBEKRLKAKAIYKRYLDNNGIVSRQIKPATKSFKDCVMKQLDPPD 194
Qy 170 MFDQAQTEIOAVMBENAYQVLTSDIYLEYVRSRGENTAYMS--NGGLGSLVKLCGYLPT 227
Db 195 MFDQAQTEIOCMIEDNTYPLFKSDIYLEYTRTGESPKIYSDPSGSGTGKGLPGYLPT 254
Qy 228 LNEEBEWTG-ADLKCKLS-----PTVGLSSKTLRATASVRSSTETAE-----NGFRSFKRSD 278
Db 255 LNEEBEWCDDOTPEASRDSAPS-SRLTQKLLLETATQATSTRRYSEGREFRHGSWE 313
Qy 279 PVNPHYVSGGVVAPATANDSE--LSSDALTDSSMTDSSVDGVPYRMGSKKOLOR 335
Db 314 PVNPHYVNTGYAMAPATANDSEQQSMSSDA--DTWSLTDSSIDGIPPYRL--RKQHR 368
Qy 336 EMHRSVKANGQVSLPHFPTRHRLPKMTPEVPAFAAEELISRLEKLEKLESHLSLEERL 395
Db 369 EMQESAKANGVPLPHIPRYRMPKDI-HVEPEKFAEELINRLEEVOKEREAEKLEERL 427
Qy 396 QOTREDEKESQALSSRDGAPVOHPLALLPSG-----SYBE 433
Db 428 KRVRABEE--GEDADISSGSPVISHK--MPSAQPFHFAPRYSEMGCAQMQRDAHE 481
Qy 434 DPOTILDHLSRLVLTGCGSPGVGRYSRPSRSDPHHHQHHHOOCHTLLSTGCKLPPVA 493
Db 482 NPBSILDEHVQRVMTKPGCSPGGRHSPKPRSPESGH-----LGLSGTLGTIPP-- 532
Qy 494 ACPLLGKSKFLTKOTT-----KHVHHYIHHHVAHPKTEEBEIEAEATQVRCLCPG 543
Db 533 -----GHGKHTTKSGMKLDAANLYHHKHVYHH-IHHHSMKPKKEQIEAEATQVRQNSFAW 586
Qy 544 GTDYICY-SKCKSHPK-----APEPLGCEQCGSRGGTLPRNAKGTPEPLGALSARDGMS 598
Db 587 NVDSHNYATKSRNYSNENLAPVMDSLGYSG-KASLLSKRNTKKTDSGKS-----DGANY 641
Qy 599 SAAGGPQLGCEGDRSQDVMQMLESRQ--SKSKPHSAQSIKSYPLSARAAAPGER- 654
Db 642 EMPGSP-----EDVERNOKILLOWIEGEKEISRIKKTNHGSGVKQLSHDWPRLSTERP 697
Qy 655 VSRHLLGASGHSRVAR-AHPFTQDPAMPPLTPPNTLAQLEACRRLAEVSK-----PQ 708
Db 698 VAVHPWV--SAQLRNVVQSPHPFTQDTPMPNAPNPLTQLEEARRELEBEERAKGLPL 755
Qy 709 KQCCVASQORDRHSAGAGASPPANPSLAPEDHKEPKKLASVHALQASLVVTFPC 768
Db 756 KQR--LKPKQR-----PGSGAQPCEN-----IVVAYYFC 783
Qy 769 GBEIPYRMLKAOSLTGLGHFKESKKNVYVYFKKASDEFACGAFVEETWDDTETVLPY 828
Db 784 GEFIPRTLKGRVTLGQFKELLTKGNRYIFKVVSDDFDCGVFEVREDTDLIPF 843
Qy 829 EGRILGKVERID 840
Db 844 EEKIIGKVEKID 855

RESULT 2

US-08-890-865A-1
; Sequence 1, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York

STATE: New York
COUNTRY: US
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/890,865A
FILING DATE: 10-JUL-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 0575/54249
TELEPHONE: (212)278-0400
TELEFAX: (212)391-0526
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 992 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-08-890-865A-1

Query Match 37.2%; Score 1655; DB 2; Length 992;

Best Local Similarity 42.7%; Pred. No. 1e-139;
Matches 390; Conservative 133; Mismatches 246; Indels 144; Gaps 30;

Qy 12 DPSSSFREDAPRPVPGEGE-----TPPCPSV--GKVOSTKPMVPVSSNARNEDGLG- 63
Db 140 DCASTFEDAPRPVPGEGELVSTDSRPVNHVFCSGKGTISKETSTATPRSDLDLGY 199
Qy 64 EPEGRASPOSPLRWTWKSLSLLGDQDQAYLFTFLERKCVDTLDFWFCNCFRQNNLK 123
Db 200 EPEGSASPTPYLRWAEBSLSLLDDQDQIGSLFTFLKQEGCADLLDFWFCNCFRLEPC 259
Qy 124 DT---KTLRVAKAIYKRYI-ENNSVVSQKLPATKYRDIKIKQOQTSVMDQAOTEIQ 179
Db 260 DSNEERLLARAIYKRYILDSNGIVSRQTKPATKSFIDCVMKQQLDPAWFOQAOTEIQ 319
Qy 180 AVNEENAYQVLTSDIYLEYVRSRGENTAYMS--NGGLGSLVKLCGYLPTLNEEBEWTG- 236
Db 320 STMEENTYFSLASDIYLEYTRTGESPKVCSQSSGSGTGKMSGYLPTLNEEBEWTG- 379
Qy 237 -----ADLKCKLSPTVVGLSSKTL-----RATASVRSSTETAEENGFRSFKRSDPVNPHY 285
Db 380 QDADEDDGRDPLPPS--RLTQKLLLETAAPRAPSSRRYREGRELRYGSMR--BPVNPYYV 435
Qy 286 GSGYVAPATANDSE--LSSDALTDSSMTDSSVDGVPYRMGSKKOLORHRSVK 342
Db 436 NSGYALAPATANDSEQQSMSSDA--DTLSLTDSSVDGIPPYRI--RKQHRMEQESIQ 490
Qy 343 ANGOVSLPHFPTRHRLPKMTPEVPAFAAEELISRLEKLEKLESHLSLEERLQOQREDE 402
Db 491 VNGRVPLPHIPRYRMPKKEIR-VEPQKFAEELIHRLEAVQRTREAEKLEERLKRVRMEE 549
Qy 403 EKEGSEQUALSSRDGAPVOHPLALLPS-----GSYBEDPQTLDDHLSR 445
Db 550 EGEDGEMP-----SGPMASHKLPSPVPAWHPPPPRYVDMGCSGLRDAHEENPESTLDEHVQR 605
Qy 446 VLKTPCGSPGVGRYSRPSRSDPHHHQHHHOOCHTLLSTGCKLPPVAACPLGSG- 500
Db 606 VMRTPGCSPG-----PGHRSPPDSGH-----VAKTVLGGTASGH 640
Qy 501 -----KSFLTQOTT-----KHVHHYIHHHVAHPKTEEBEIEAEATQVRCLCPGCTDYICY 550
Db 641 GKHPVKLGLKLTAGLHHHHHHVHHH-VHNSA-RPKEQMEAEVARRVQSSFSFGPETHGH 698
Qy 551 SKCKSHPK-APEPL-PGEQFCGSRGGTLPRKNAKGTPEPLGALSARDGMSAAGGPQLPG 608

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OM protein - protein search, using sw model

Run on: April 20, 2006, 15:30:33 ; Search time 70.1847 Seconds
(without alignments)
989.497 Million cell updates/sec

Title: US-09-587-574-1
Perfect score: 4445
Sequence: 1 MSSAVLVTLPPDPSSFPRED.....DETLPVMEGRILKVERID 840

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA*
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2: /cgn2_6/ptodata/1/1aa/6 COMB.pcp.*
3: /cgn2_6/ptodata/1/1aa/H COMB.pcp.*
4: /cgn2_6/ptodata/1/1aa/PCUS COMB.pcp.*
5: /cgn2_6/ptodata/1/1aa/RE COMB.pcp.*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1736	39.1	855	2	US-08-890-865A-10
2	1655	37.2	992	2	US-08-890-865A-1
3	1605	36.1	900	2	US-08-890-865A-4
4	412	9.3	127	2	US-08-890-865A-19
5	208	4.7	235	2	US-09-244-314-2
6	208	4.7	235	2	US-09-498-959-2
7	208	4.7	235	2	US-09-894-749-2
8	196	4.4	313	2	US-09-270-767-43189
9	193	4.3	235	2	US-09-244-314-4
10	193	4.3	235	2	US-09-498-959-4
11	193	4.3	235	2	US-09-894-749-4
12	190	4.3	51	2	US-08-890-865A-23
13	189.5	4.3	519	2	US-10-113-794A-2
14	189.5	4.3	520	2	US-09-949-016-9918
15	180	4.0	930	2	US-10-113-794A-1
16	172.5	3.9	211	1	US-08-748-483-4
17	172.5	3.9	211	2	US-09-949-016-6288
18	172.5	3.9	221	2	US-09-949-016-10608
19	171.5	3.9	120	2	US-08-890-865A-13
20	170.5	3.8	243	1	US-08-829-110-3
21	169	3.8	181	2	US-09-949-016-10741
22	167.5	3.8	120	2	US-08-890-865A-11
23	166	3.7	119	1	US-08-588-258B-31
24	166	3.7	119	2	US-08-460-505-31
25	166	3.7	119	4	PCUS-US96-08295-31
26	166	3.7	196	1	US-08-829-110-5
27	166	3.7	196	1	US-08-748-483-3

28 166 3.7 196 2 US-09-702-705-339 Sequence 339, App
29 166 3.7 196 2 US-09-736-437-339 Sequence 339, App
30 166 3.7 196 2 US-09-614-124B-339 Sequence 339, App
31 166 3.7 196 2 US-09-671-325-339 Sequence 339, App
32 166 3.7 196 2 US-09-589-184-339 Sequence 339, App
33 166 3.7 196 2 US-09-658-824-339 Sequence 339, App
34 166 3.7 196 2 US-10-017-754-339 Sequence 339, App
35 166 3.7 196 2 US-09-651-563-339 Sequence 339, App
36 166 3.7 196 2 US-09-519-642-339 Sequence 339, App
37 166 3.7 200 2 US-09-949-016-10607 Sequence 10607, A
38 162.5 3.7 1182 2 US-09-041-886-21 Sequence 21, Appl
39 162 3.6 119 2 US-08-890-865A-18 Sequence 18, Appl
40 160.5 3.6 190 2 US-09-949-016-11199 Sequence 11199, A
41 159 3.6 119 2 US-08-890-865A-15 Sequence 15, Appl
42 159 3.6 181 1 US-08-748-483-1 Sequence 1, Appl
43 159 3.6 181 2 US-09-709-103-25 Sequence 25, Appl
44 159 3.6 181 2 US-09-439-410A-25 Sequence 25, Appl
45 158 3.6 121 1 US-08-588-258B-32 Sequence 32, Appl

ALIGNMENTS

RESULT 1
US-08-890-865A-10
; Sequence 10, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESS: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/08/890.865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 855 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-10

Query Match 39.1%; Score 1736; DB 2; Length 855;
Best Local Similarity 44.5%; Pred.No. 4e-147;
Matches 406; Conservative 128; Mismatches 214; Indels 164; Gaps 35;
QY 12 DPSSFRDAPRPVPGEGETPPQCPGVQVKQTKMPVS-----SNARNEDG--- 61
DB 25 DLGRSFTEDAPRPVPGEGE-----LVSTDPRPVSHGFYSSKSDAVRNETSTAT 74
QY 62 -----LG-FPEGRASPDSPLTRWTKSLHSLGDDGAYLFRFTFLEREKCVDTLDFWFA 113

Db 699 AKRPSYSENACTTSLAGDLPFGGKTSAPS KNTKKAESGKNANA-----EYPS 746
Qy 609 --EEDRSQDVQWMLSERO---SKSPHSAQSIKSYPLSARAAAPGERVSRHLLGA 663
Db 747 TTEDEAKQKTMQWIEGEKISHRKAGHSGSLRQQAHESSRPLSIEPAGVHPWS 806
Qy 664 SGHSRVARAHPTQDPAMPPLTPNTLAQLEEAACRRRLAEVSK-----POKORCCVASQ 718
Db 807 AQLANSVQPSHLFIQDPTMPNPAPNPLTQLEEARRLLEEKKRANKLPKRYVQAVMQ 866
Qy 719 RDRNHSAGAGAGASPPANP-----SLAPEDHKEPKKLASVHALQASELVVTFYF 767
Db 867 R-----GRTCVRPACAPVLVSVPAVSDLESETETSKORKAGGGSAPPDCDSIVGVYF 919
Qy 768 CGEIPYRMLKAQSLTLGHFKEOLSKGNRYFYFKKASDEFACGAVPEEIDWDETLP 827
Db 920 CGEIPYRMLVGRVAVTLGQKELLTKGSTRYFYFKKVSDEFDCGVVFEVREDEPVL 979
Qy 828 YEGRIKGVKVERID 840
Db 980 FEEKIIGKVKVD 992

RESULT 3

US-08-890-865A-4
; Sequence 4, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-4
Query Match 36.1%; Score 1605; DB 2; Length 900;
Best Local Similarity 41.2%; Pred. No. 2.9e-135;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;
Qy 12 DPSSSFEDAPRPVPVCEGETPPCQPSGVKQVOSTKEMPVS-----SN 54
Db 48 DLGASFTEDAPRPVPVCEGE-----LVSTDRPASYSFCSGKGVIGKGTSTAT 97

Qy 55 ARNEDGLG-EPEGRASPDSPLTRWTKSLHSLLDGDDGAYLFRTELEKEKCVDTLDFWPA 113
Db 98 PRSDLDLGYPEGSASPTPPYLKWAESLHLLDDQDGLSLFRTFLKQEGCADDLDFWPA 157
Qy 114 CNGFRQMLKDT---KTLRVAKAIYKRYI-ENNSVUSKOLKPAKTYITRDGKIKKQOIGSV 169
Db 158 CTGRFKLEPCDSNEKRLKLARAIYKRYILONNGIVSRQTKPATKSF1KGCIMKOLIDPA 217
Qy 170 MFDQAQTEIOAVMEENAYOVFLTSDIYLEYVRSRGENTAYMS--NGGLGSLKVLGCGYLP 227
Db 218 MFDQAQTEIOATMEENTYPSFLKSDIYLEYTRTGSSEPKVCSQSSSGSGTKGISGYLPT 277
Qy 228 LNEEEWTC-----ADLKCKLSPVTVGLSSKTLRATASVRSSTETETENGRSPRKR 276
Db 278 LNEDEEWKCDQMDDEDDGRDAAPGRL-PQKLLLETAAPRVSSRRRYSEGREFRYGSWR- 335
Qy 277 SDPNVPYHVGSGYVPAPATSANDSE--LSSDALTDSDMSMTDSSVDGVPVYRMGSKOL 333
Db 336 -EPNPPYVNVAGYALAPATSANDSEQSSLSDA---DTLSLTDSSVDGIPPIYRI--RKOH 389
Qy 334 QREMHRSVKANGOVSLPHFPRTHRLPKEMTPVEPAAFAAEELISLEKLELESHRSLSE 393
Db 390 RREMOSSAQNVRVPLPHIPRTYVPKEVR-VEPQFAEELIHRLEAVQRTREAEKLEB 448
Qy 394 RLQOIREDKEKESQALSSRDGAPVQ-----HPLALLPS-----G 429
Db 449 RLKRVMEEGE-----DGDPSGPPGCPCHKLPPAPAWHHFPPRLCWTMACAGLRD 499
Qy 430 SYBEDPOTILDDHLRVLKTPGCGSPGVGRVSRSPDHQHQQHQQCHTLLSTGCKL 489
Db 500 AHEENPESILDEHVQVRVLTGTGROSG-----PGHRSPDSGHV-----AKM 540
Qy 490 PPVAAACPLLGKSKFLTKQTTK-----HVHHYIHHHVAVPKTEEIEAEATQVRVC 539
Db 541 PVALGGAASGHGKHVPKSGAKLDAAGLHHHRHVHVH--HISTARPEQVEAEATRAQS 598
Qy 540 LCPGTDYCYVK-----CKSHKPAPEPLGEGCQSGRGGLPKRANAKGTPEGLALSARD 594
Db 599 SFAMGLEPHSGHARGSYSESVGAAPNASDGLAHSG-KVGVACKRNAAKESGKSAST-- 655
Qy 595 GGMSSAAGGPQLPG--BEGDRSQDVQWMLSERO---SKSKPHSAQSIKSYPLSARA 649
Db 656 -----EVPQASEDAEKQKIMQWIEGEKEISRHRRTGHSGSSTRAPQPHENSRRP 705
Qy 650 AGERVSRHLLGASGHSRVARAHPTQDPAMPPLTPNTLAQLEEAACRRRLAEVSK--- 706
Db 706 -----LSLEHPWAGPQLRTSVQPSHLFIQDPTMPHPAPNPLTQLEEARRLLEEKKRAS 760
Qy 707 --POKQRCVVASQORDNRNHSAGAGASPPANP-----SLAPEDHKEPKKLASV 753
Db 761 RAPSQRVQEVMMR-----GRACVVPACAPVLHVVPVAVSDMELSETETRSQKVG 813
Qy 754 HALQASELVVTFYFCGEEIPYRMLKAQSLTLGHFKEOLSKGNRYFYFKKASDEFACGA 813
Db 814 SAOPCDSIVVAYFYCGEPIPIRTLVGRVAVTLGQKELLTKGSTRYFYFKKVSDEFDCGV 873
Qy 814 VFEEIWDDETLPVMEGRILGKVERID 840
Db 874 VFEEVREDEAVLPVFEKIIIGKVKVD 900

RESULT 4

US-08-890-865A-19
; Sequence 19, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas

```

; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-19

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Query Match          9.3%; Score 412; DB 2; Length 127;
Best Local Similarity 62.2%; Pred. No. 4.4e-29;
Matches 79; Conservative 21; Mismatches 23; Indels 4; Gaps 2;

QY 77 RWTSLHSLGDDQDGYLFRFTFLEREKCVDTLDFWACNGFR-----QMLKDTKTLRVAKAIYK 133
DB 1 RWAESLHSLDDQDGYLFRFTFLEREKCVDTLDFWACNGFR-----QMLKDTKTLRVAKAIYK 60

QY 134 IYKRYI-ENNSVSVSKQLKPAATYIRDGKIKQKQIGSVMFDOAQTEIQAVMEENAYQVFLT 192
DB 61 IYRKILDSNGIVSRQTPATKSFKDCVMKQIDPAMFDQAQTEIQSTMEENTYPSFLK 120

QY 193 SDIYLEY 199
DB 121 SDIYLEY 127

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RESULT 5
US-09-244-314-2
; Sequence 2, Application US/09244314
; Patent No. 6274362
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/244,314
; CURRENT FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-244-314-2

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Query Match          4.7%; Score 208; DB 2; Length 235;
Best Local Similarity 30.8%; Pred. No. 3.1e-10;
Matches 56; Conservative 34; Mismatches 58; Indels 34; Gaps 6;

QY 41 GKVQSTKMPVSSNARRN-----ED-----GLGPEGRASPDSPLTWTKSL 82
DB 29 GKEETSKAKIRAKEKRNRLSLLVQKPEFHEDTRSSRSHLAKETRVSPPEAV-KWGESF 87

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QY 83 HSLGDDQDGYLFRFTFLEREKCVDTLDFWACNGFR-----QMLKDTKTLRVAKAIYK 136
DB 88 DKLLSHRDGLAFTFLKTEFSEENIEFWIACEDFKSKGPOQIHLK-----AKAIYE 140

QY 137 RYIENNSVSVSKQLKPAATYIRDGKIKQKQIGSVMFDOAQTEIQAVMEENAYQVFLTSDIY 196
DB 141 KPIQTDAPKEVNLDPHTKEVITNSITQPTLHS--FDAAQSRVYQLMEODSYTRFLKSDIY 198

QY 197 LE 198
DB 199 LD 200

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RESULT 6
US-09-498-959-2
; Sequence 2, Application US/09498959
; Patent No. 6410240
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses
; FILE REFERENCE: 5800-19A
; CURRENT APPLICATION NUMBER: US/09/498,959
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: 09/244,314
; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-498-959-2

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Query Match          4.7%; Score 208; DB 2; Length 235;
Best Local Similarity 30.8%; Pred. No. 3.1e-10;
Matches 56; Conservative 34; Mismatches 58; Indels 34; Gaps 6;

QY 41 GKVQSTKMPVSSNARRN-----ED-----GLGPEGRASPDSPLTWTKSL 82
DB 29 GKEETSKAKIRAKEKRNRLSLLVQKPEFHEDTRSSRSHLAKETRVSPPEAV-KWGESF 87

QY 83 HSLGDDQDGYLFRFTFLEREKCVDTLDFWACNGFR-----QMLKDTKTLRVAKAIYK 136
DB 88 DKLLSHRDGLAFTFLKTEFSEENIEFWIACEDFKSKGPOQIHLK-----AKAIYE 140

QY 137 RYIENNSVSVSKQLKPAATYIRDGKIKQKQIGSVMFDOAQTEIQAVMEENAYQVFLTSDIY 196
DB 141 KPIQTDAPKEVNLDPHTKEVITNSITQPTLHS--FDAAQSRVYQLMEODSYTRFLKSDIY 198

QY 197 LE 198
DB 199 LD 200

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RESULT 7
US-09-894-749-2
; Sequence 2, Application US/09894749
; Patent No. 6830914
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/894,749
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: 09/244,314
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235

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; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 918
; LENGTH: 520
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9918

Query Match          4.3%; Score 189.5; DB 2; Length 520;
Best Local Similarity 32.0%; Pred. No. 5.3e-08;
Matches 49; Conservative 26; Mismatches 67; Indels 11; Gaps 4;

Qy 56 RRNEDGLGEPEGRA-----SPDS-PLTRWTKSLHSLGDDGAYLFRTELEKCVDT 107
Db 362 RRNESPAGPAGKADKWKMSFKPTSEALKWGESLEKLLVHKYGLAVFQAFRLTFESEN 421
Qy 108 LDFWFACNGFQNMKDKTKLRVAKAIYKRYIENNSVSVSKQLKPKATKYIRDGKKQOIG 167
Db 422 LEFWLACEDFKVKV-SQSKMAKAKKIPAEYIAIQACKEVNLDSTYREHTKDNL--QSVT 478
Qy 168 SVMFDOAQTEIOAVMEENAYOVFLTSDIYLEYV 200
Db 479 RGCEDLAQKRIFGLMEKDSYPRFLRSDLYLDLI 511
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RESULT 15
US-10-113-794A-1
; Sequence 1, Application US/10113794A
; Patent No. 6919313
; GENERAL INFORMATION:
; APPLICANT: Flanagan et al.
; TITLE OF INVENTION: B EPHRIN REGULATION OF G-PROTEIN COUPLED
; TITLE OF INVENTION: CHEMOATTRACTION
; FILE REFERENCE: 2535/106
; CURRENT APPLICATION NUMBER: US/10/113,794A
; CURRENT FILING DATE: 2002-04-01
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 930
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-113-794A-1
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Query Match          4.0%; Score 180; DB 2; Length 930;
Best Local Similarity 28.2%; Pred. No. 1e-06;
Matches 48; Conservative 31; Mismatches 67; Indels 24; Gaps 4;

Qy 32 ETTPCQPSVGKVGSTKPM-EVSSNARNEDGLGEPEGRASPSPLTRWTKSLHSLGDDQ 90
Db 775 ESPGAQPAKTDKTKSFKPTSEEA-----LKWSESEKLLHLKY 814
Qy 91 GAYLFRTELEKCVDTLDFWFACNGFQNMKDKTKLRVAKAIYKRYIENNSVSVSKQLK 150
Db 815 GLEVFOAFLRTEFSEENLEFWLACEDFKVKV-SQSKMAKAKKIPAEYIAIQACKEVNLD 873
Qy 151 PATKYIRDGKKQOIGSVMFDOAQTEIOAVMEENAYOVFLTSDIYLEYV 200
Db 874 SYTREHTKENL--QSTITRCGCDLAQKRIFGLMEKDSYPRFLRSDLYLDLI 921
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Search completed: April 20, 2006, 15:32:28
Job time : 71.1847 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 20, 2006, 15:57:53 ; Search time 291.821 Seconds
(without alignments)
1202.714 Million cell updates/sec

Title: US-09-587-574-1
Perfect score: 4445
Sequence: 1 MSSAVLVTLLPDPSSSFRED.....DETVLPMYEGRIKGVKVERID 840

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pcp.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4027.5	90.6	843	5	US-10-723-860-1797
2	4027.5	90.6	843	5	US-10-751-736-116
3	1654.5	37.2	842	3	US-09-798-831-8
4	1619.5	36.4	862	4	US-10-786-720-35
5	1617	36.4	912	4	US-10-092-900A-270
6	1615.5	36.3	347	4	US-10-264-049-2846
7	1612.5	36.3	826	4	US-10-786-720-36
8	1605	36.1	900	4	US-10-374-979-31
9	1605	36.1	900	4	US-10-182-936A-91
10	1605	36.1	900	5	US-10-477-238A-670
11	1605	36.1	900	5	US-10-680-287A-670
12	1605	36.1	900	5	US-10-477-173-670
13	860	19.3	461	4	US-10-786-720-34
14	733	16.5	155	4	US-10-106-698-5828
15	457.5	10.3	745	6	US-11-097-143-3015
16	208	4.7	227	3	US-09-867-550-8018
17	208	4.7	235	4	US-09-894-749-2
18	208	4.7	235	4	US-10-258-371B-20
19	208	4.7	235	5	US-10-989-054-2
20	198.5	4.5	916	5	US-10-899-422-13
21	198.5	4.5	1059	5	US-10-899-422-11
22	194	4.4	776	4	US-10-087-192-1728
23	193	4.3	235	3	US-09-894-749-4
24	193	4.3	235	5	US-10-989-054-4
25	190.5	4.3	284	4	US-10-094-749-1650
26	189.5	4.3	519	4	US-10-113-794A-2
27	189.5	4.3	519	4	US-10-428-487-14

28	189.5	4.3	519	4	US-10-258-371B-28	Sequence 28, Appl
29	189.5	4.3	591	4	US-10-108-260A-3970	Sequence 3970, Ap
30	189.5	4.3	917	5	US-10-487-092-15	Sequence 15, Appl
31	184.5	4.2	119	4	US-10-087-684-107	Sequence 107, App
32	184.5	4.2	119	4	US-10-218-779-107	Sequence 107, App
33	182	4.1	923	4	US-10-114-270-152	Sequence 152, App
34	180	4.0	930	4	US-10-113-794A-1	Sequence 1, Appli
35	175.5	3.9	1175	6	US-11-097-143-10101	Sequence 10101, A
36	174.5	3.9	566	5	US-10-473-127-385	Sequence 385, App
37	172.5	3.9	211	3	US-09-206-639-4	Sequence 4, Appli
38	172.5	3.9	211	4	US-10-258-371B-24	Sequence 24, Appl
39	172.5	3.9	211	4	US-10-408-765A-493	Sequence 493, App
40	172.5	3.9	220	3	US-09-925-300-1507	Sequence 1507, Ap
41	168	3.8	207	3	US-09-925-297-812	Sequence 812, App
42	168	3.8	487	5	US-10-473-127-387	Sequence 387, App
43	167	3.8	167	4	US-10-258-371B-26	Sequence 26, Appl
44	166	3.7	196	3	US-09-206-639-3	Sequence 3, Appli
45	166	3.7	196	3	US-09-736-457-339	Sequence 339, App

ALIGNMENTS

RESULT 1
US-10-723-860-1797
; Sequence 1797, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Nataasha
; APPLICANT: Gineburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10/723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1797
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-723-860-1797

Query Match	90.6%	Score	4027.5	DB 5	Length	843			
Best Local Similarity	89.7%	Pred. No.	1.1e-276						
Matches	758	Conservative	31	Mismatches	49	Indels	7	Gaps	3
Qy	1	MSSAVLVTLLPDPSSSFREDAPRPVPEEGETPPCQPSVGKQVSTKPMVSSNARRNE	60						
Db	1	MSSAVLVTCLPDPSSSFREDAPRPVPEEGETPPCQPGVGKQVTKPMVSSNTRRNE	60						
Qy	61	GLGPEGRASDPSPLTRWTKSLHSLGDDQAYLFRFLEREKCVDTLDFWACNGFROM	120						
Db	61	GLGPEPSGRASDPSPLTRWTKSLHSLGDDQAYLFRFLEREKCVDTLDFWACNGFROM	120						
Qy	121	NLKDTKTLRVAKAIYKRYIENNVSVKSLKPAATKYTRDGIKKQGTGSVMPDQAOTQIA	180						
Db	121	NLKDTKTLRVAKAIYKRYIENNVSVKSLKPAATKYTRDGIKKQGTDSIMFDQAOTQIS	180						
Qy	181	VMEENAYQVFLTSDIYLEYVRSGGENTAYMNSGGLSKVLKCYLPVLNEEEBWTCA	240						
Db	181	VMEENAYQVFLTSDIYLEYVRSGGENTAYMNSGGLSKVLKCYLPVLNEEEBWTCA	240						
Qy	241	CKLSPTVVGLSKTLRATASVRSSTETANGFRSFKRSDPNVPYHVGSGYVFPAT	300						
Db	241	CKLSPTVVGLSKTLRATASVRSSTETVDSYRSFKRSDPNVPYHIGSYVFPAT	300						
Qy	301	ELSSDALTDSDMSMTDSSVDGVPYRMGSKKQLOREHRSVKANGOVSLPHFPRTHRLPK	360						
Db	301	EISSDALTDSDMSMTDSSVDGIIPPYRVGSKKQLOREHRSVKANGOVSLPHFPRTHRLPK	360						

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361 361 361 421 421 481 481 537 537 597 597 657 657 716 716 776 776 836
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EMTVEPAAFAAEILSRLEKLEBSRHSLEERLOQIREDEEREGSEQALSRRDGAPO 420
EMTVEPATFAAEILSRLEKLEBSRHSLEERLOQIREDEEREGSELTLNSREGAPTO 420
HPLALLPSGSEYEDPQTILDDHLSRVLTGQCQSPGVGRYSRSPRSDHHQHQQH 480
HPLSLLPSGSEYEDPQTILDDHLSRVLTGQCQSPGVGRYSRSPRSDHH- HHHHSQYH 478
TLLSTGKGLPPVA-----ACPLLGGKSLFTQTTKHVVHHYIHHHAVPKTEEAEATOR 536
SLLPPGKGLPPAAASPGACPLGGKGKGVFTQTTKHVVHHYIHHHAVPKTEEAEATOR 538
VRCLPCPGTDYCYCKSKSHIPKAPEPLPGEQFCGSRGCTLPRNNAKGTGPGALASRDGG 596
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MSSAAGFQPLPGBEGDRSQDVQWMLSESRQSKPHSAQSIKSYPLSRAAPAGERVS 656
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RMLKAQSLTLGHFHEQLSKKGNRYRYFKKASDEFACCAVPEEIWDDETVLPMYEGRILGK 835
RMLKAQSLTLGHFHEQLSKKGNRYRYFKKASDEFACCAVPEEIWEDETVLPMYEGRILGK 838
VERID 840
VERID 843

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RESULT 2

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US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
;
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
; LENGTH: 843
; TYPE: FRT
; ORGANISM: Homo sapiens
; US-10-751-736-116

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RESULT 3

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US-09-798-831-8
; Sequence 8, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306UI
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 842
; TYPE: PRT

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; ORGANISM: *Xenopus laevis*
US-09-798-831-8

ORGANISM: X
US-09-798-831-8

Query Match 37.2%; Score 1654.5; DB 3; Length 842;
Best Local Similarity 42.5%; Pred.No. 2.8e-108;
Matches 385; Conservative 125; Mismatches 246; Indels 149;

Qy	12	DPSSSFREDAPRPVPGBEGE--TTPCQPSVGKVOSTKPMV-----SSNARNNEDEGLG-	63
Dd	11	DLGCSFTEDAPRPVPGBEGELITTDORPFSHTYSLKNDGIKNETSTATPRPDLDJIG	70
Qy	64	EPEGRASDPLRFTWTKLSHLLGDQAGYLFRFLEREKCVDTLDFWACNGRQOMLK	123
Dd	71	EPEGSAPTPYLUKAWSLHLLDDQGHILFRFLQOENCADLLDFWACSGFKUGBN	130
Qy	124	DTKT--LRVAKAIKYKI-ENNSVSKQLKPATKYIRDKIKKQQISVMFDQAQTBIQ	179
Dd	131	DSKVEXRLKLAKAIKKYVLDSNGIVSRQIKPATKSFIKOCVLRQODPAMFDQAQMEIQ	190
Qy	180	AVMEENAYQVLFSDIYLEVVRSGENTAYMS--NGGLGSUKLVLCGYLPPTNEBEEWT-C	236
Dd	191	SMMEDNTYPVFLXSDIYLEVTTIIGESPKNYSDOSSGGTGKGPSPGYLPTLINEDEWRCD	250
Qy	237	----ADLKC--KLSPTVVGLSSKTLRATASVRSTETAENGPRSFKRSDPVNPYHVGS	287
Dd	251	QGGEHRERECIPSSLFSPQKALUDSSHCAGSNRRLLSDGRE--PRPGTWRFEPVNPYYNT	308
Qy	288	GYYFAPATSANDSE--LSSDALTTDDSMSTMDDSSVDGVPPYRMGSKKLOQREMHRSVKAN	344
Dd	309	GYAGAPVTSANDSEQSSMSDA--DTMSLTDDSSVDGIPPVRL--RKHYREMQUESANAN	363
Qy	345	QGVSLPHFPTRHLPKEMTVPEPAFAAELISRUEKULKLESRHSLUERLOQTIREDEEK	404
Dd	364	GRGPLPHIPRTYIMPDKDI-HVDPEKFAAELISRLEGVLRDREAQBKEULRIKRVRAEE--	420
Qy	405	EGSEQALSRRDGAPVOHPALLPSG-----SYBEDPOTILDDH	442
Dd	421	EGDDGVSSGPSV-ISHK--LPSGPPMHHFNRSYSETGCVMQIRDAHEENPESIIIDEH	476
Qy	443	L SRLVLTGPCQSPGVGRYSRPSRDHHHQ-----HHHHQOCHTLLSTGCKL	489
Dd	477	VQRVMKTPGCQSPGTGRHSPKRSPOGHLSKTLPGSLGTMQTGHGXSSKSTAKVDSGNL	536
Qy	490	PPVAACLPGCKSFLTKQTTQVHHVYIHHAHPKTEETEAEATQVRCLPCPGTDYYC	549
Dd	537	-----HHKHVYHH-VHHHGVGVPKEQIDGESTQRTVQTFPNFWNVESHN	578
Qy	550	YSK-----CKSHKPAPELPGEOPCGSRGGTLPKRNAKGTPEGLALSARDGMSSAAGGP	604
Dd	579	YATKSRNYAESMGMAPNPMDSLAYS-GVSMLSKRNAKKADLGKSESA-----SIEMP	630
Qy	605	QLPGEDEGRSDQYWQMLESERQ---SKSKPHSAQSIRKSYPLESARAAAGEVRSRHLL	661
Dd	631	VVP-EDSERHQTLQWIMEGEKEIIRHKSNHSSSSAKQPPTELARPLSIRPGAHPVHP	689
Qy	662	GASGHSRSVARAHPTQDPAMPPLTPNTLAOL-EBACRRLAEVSK-----PQQRCCVA	715
Dd	690	VSAQLRNVPQSPHFPIQDPTMPNPAFNPLTQLVSKFGARLEEKEKAAKMPQORI---	746
Qy	716	SQORDNRHSAAGAGASPANPSLAPEDHKEPKKLASVHALQASELVVTVFFCEETPYR	775
Dd	747	-----KPKQNVSAPSQCNDNI VVAYFFCEGEPIDYR	777
Qy	776	RMLKAQSLTLGHFKEQLSKKGNTRYYPKKAASDEFACGAFVEEIWDDETVLPMYEGRLGK	835
Dd	778	TWVKG RVTLGQFKELLTKKGNTRYYPFKYSDFEFCGCVVFEEVREDDMWILLPIYEKIIG	837
Qy	836	VERID 840	
Dd	838	VEKID 842	

RESULT 4

US-10-786-720-35

US-10-180-720-33
; Sequence 35, Application US/10786720
: Publication No. US20040191818A1

: GENERAL INFORMATION:

APPLICANT: Wveth

APPLICANT: Q'Toole. Margot

APPLICANT: Lin Wei

1 AFFILIATION: UNIV, WET
2
3 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
4 DISEASES
5
6 TITLE OF INVENTION: DISEASES

; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-033000

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; FILE REFERENCE: 03I8996-023000 (AMI01331L)
; CURRENT APPLICATION NUMBER: IIS/10/785 720

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; CURRENT APPLICATION NUMBER: US/10/186,720
 ; CURRENT FILING DATE: 2004-03-26

;; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEC ID NOS: 31135

; NUMBER OF SEQ ID NOS: 21135

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; SOFTWARE: PatentIn version 3.2

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; . LENGTH: 862

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; TYPE: PRT

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; ORGANISM: Homo sapiens

US-10-786-720-35

Query Match 36.4%; Score 1619.5; DB 4; Length 862;

Query Match:	20.1%	Score: 101.57	22
Best Local Similarity	41.9%	Pred. No. 8.9e-106:	

Best local similarity	41.5%;	freq. no.	8.50	100;	
Matches	385;	Conservative	127;	Mismatches	251;
		Indels	155;	Gaps	30;

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12  D$SS$FREDAPRPVP$GEGETPPCQPSVGKVQ$TKMPV$-----SN 54
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Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
11  DLGAS$LEDAPRPVP$GEGE-----LV$TDRPASYSFCSGKGVGIKGET$TAT 60
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Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
55  ARNED$GL-EP$EGASPD$PLTRWTK$SLH$LLGDODGAYL$PRFLER$KCVDT$LD$WEA 113
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
61  PR$RDLDL$GYPEGSAS$TPPYL$KWA$SLH$LLDDQ$ISL$FRT$FLQ$BG$CAD$LLD$WEA 120
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
114  CNGF$Q$MNL$KDT---KTL$RVA$KAI$KRYI-ENNS$V$V$KQL$KPA$TKT$VIR$DGI$KKQ$IG$SV 169
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
121  CTG$FRK$L$PCD$SNE$E$R$KL$AR$Y$KYL$DNGI$V$SR$Q$TK$PAT$K$FI$K$CM$KQ$L$DPA 180
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
170  MFD$Q$AQT$EIQ$A$VME$N$A$YOV$LT$DI$Y$LY$VR$G$ENT$AYMS---NG$LG$SL$KVL$C$GYL$PT 227
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
181  MFD$Q$AQT$EIQ$ATME$NT$Y$PS$FLK$DI$Y$LY$TRT$G$ESP$KVC$SQD$SG$SGT$GKGI$GYL$PT 244
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
228  LNE$B$E$WTC-----ADL$CKL$PTV$VGL$SKTL$RAT$AS$VR$ST$ET$AENG$FR$SP$KR 276
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
241  LNE$D$E$WTC$DQD$MEDD$G$R$D$A$P$GRL-POK$LL$ET$AAPRV$SS$RRY$SEG$R$F$Y$G$SWR- 298
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
277  SPD$VNPY$HV$G$Y$V$FAP$AT$S$AND$E---L$SSD$AL$TDD$SM$T$D$SS$V$G$V$PY$R$M$G$SK$QL 333
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
299  -EP$VNPY$V$NAGY$AL$AP$AT$S$AND$E$Q$S$LS$D$A---DTL$SLT$D$SS$V$DGI$PY$RI-RKQH 354
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
334  QRE$M$R$SVKANG$QV$SL$PH$F$P$R$H$L$P$K$EM$TP$VE$P$AA$F$AE$LI$S$R$LE$K$LU$E$S$R$H$S$LEE 393
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
353  REM$Q$ES$QV$QNGR$V$PL$PHI$P$RTY$R$VP$KEVR-VEPOK$F$AE$LI$H$R$LEA$V$Q$RT$RE$A$E$K$LEE 411
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
394  RLQO$T$RE$B$E$K$E$G$E$Q$AL$SRD$G-----APVOH--PLALL$PSG-----SYEED$POTI 438
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
412  RLK$YR$M$E$E$G$S$D$G$PS-SGP$P$G$CHKL$PPAP$A$WH$F$P$PCV$D$M$G$C$AGL$R$DA$H$E$N$P$E$SI 470
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Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
439  LDDH$LS$RVL$KTPG$Q$S$PC$G$V$R$YS$P$R$S$P$D$H$H$Q$H$H$Q$O$C$H$TLL$T$G$G$KL$PP$V$A$C$PLL 498
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
471  LD$E$H$Q$VR$IL$TPG$R$Q$G-----P$G$H$R$S$P$D$S$G$HV-----AKMP$V$AL$G$A$AS 511
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
499  GCK$S$FLTK$Q$TTK-----HVHHYI$H$H$V$A$P$TK$EIE$A$E$A$TOR$VR$CL$P$G$G$TD$Y$Y 548
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
512  GHG$K$H$V$K$G$AKL$D$A$AGL$H$H$R$H$V$H$H$V---HH$STAR$P$KEQ$VEA$E$AT$R$A$Q$SS$F$AW$G$LE$PH 569
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
549  C$Y$VK-----CK$H$P$K$A$P$E$PL$P$G$E$Q$P$C$G$R$G$T$L$P$K$R$V$AK$G$TE$P$C$L$AL$S$ARD$G$M$S$S$A$AGG 603
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
570  SHG$AR$S$RG$Y$S$E$V$G$A$P$NASD$GL$A$H$S-KVG$V$A$C$K$R$N$AK$K$A$E$S$K$S$AST----- 617
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Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
604  POL$P$G-BEGD$R$QD$V$W$M$M$E$S$R$Q---SK$S$K$P$S$A$Q$S$R$K$S$Y$P$L$E$S$A$R$A$A$P$G$E$V$SR$H 658
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
618  -EVP$G$A$D$E$A$E$K$N$Q$IM$Q$M$I$E$G$K$B$T$S$R$H$R$T$G$H$G$S$G$T$R$K$K$P$O$H$E$N$S$R$P-----LSLE 671
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |
659  HLL$G$AS$G$H$R$S$V$A$R$A$H$P$TOD$P$AM$P$PL$TP$NTL$A$Q$LEA$C$R$R$LA$E$V$S$K-----P$OK$Q$R$C 713
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db  | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Db 672 HPWAGPQLRTSVQPSHLFIQDPTMPPHAPNLTQLEEARRELEEEKRAAPSQRV 731
Qy 714 VASQORDNRHNSAQAQASPFANP-----SLAPEDHKEPKKLASHVHALQASLV 762
Db 732 QEVNER-----GRACVRPACAPVHLVVVPAVSDMELSETETRSQRKVGGSQAQPCDSIV 784
Qy 763 VTYFCGBEIPYRRMKQSLTLGHFKQSLKKGNYRYFFKASDEFACGAVFEIWDDE 822
Db 785 VAYFCGPIPTLVGRGAVTLGQFKELLTKGSRYYFFKVSDEFDCGVVFEVREDE 844
Qy 823 TVLPMYEGRIILGKVERID 840
Db 845 AVLPUFEKIKGVEKD 862

RESULT 5

US-10-092-900A-270
; Sequence 270, Application US/10092900A
; Publication No. US20040043382A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Taupier Jr., Raymond J.
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Li, Li
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Ji, Weizhen
; APPLICANT: Gorman, Linda
; APPLICANT: Miller, Charles E.
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gangolli, Esha A.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Fernandes, Elma R.
; APPLICANT: Casman, Stacie J.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Liu, Yi
; APPLICANT: Anderson, David W.
; APPLICANT: Spaderina, Steven K.
; APPLICANT: Catterton, Elina
; APPLICANT: Leite, Mario W.
; APPLICANT: Zhong, Hailong
; APPLICANT: Alsobrook, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-290C
; CURRENT APPLICATION NUMBER: US/10/092,900A
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: USN 60/274,322
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USN 60/283,675
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: USN 60/338,092
; PRIOR FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: USN 60/274,281
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USN 60/274,191
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USN 60/325,681
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: USN 60/304,354
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: USN 60/279,995
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: USN 60/294,899

; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: USN 60/287,424
; PRIOR FILING DATE: 2001-04-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 768
; SEQ ID NO 270
; LENGTH: 912
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-092-900A-270

Query Match 36.4%; Score 1617; DB 4; Length 912;
Best Local Similarity 41.4%; Pred. No. 1.5e-105; Indels 172; Gaps 29;
Matches 384; Conservative 125; Mismatches 246;

Qy 12 DPSSSFREDAPRPVPGEGETPPCQPSVGKQSTKMPVS-----SN 54
Db 60 DLGASFTEDAPRPVPGEEGE-----LVSTDRPASVFCSGKGVGKGETSTAT 109
Qy 55 ARNEDGLG-EPEGASPDSPLTWTWTKSLHSLLDGQDQAYLFRFTLEREKCVDTLDFWPA 113
Db 110 PRSDLDLGYEPEGASGPTPYLKWESLHSLLDQDQISLFTFLKQEGCADLLDFWPA 169
Qy 114 CNFRQWNLKDT---KTLRVAKAIYKRYI-ENNSVVSQKLPATKTYLRDGIKKQIGSV 169
Db 170 CTGFRKLEPCDSNEEKRLKLARIYKRYLDNNGIVSRQTRPATKSFYKGCIMKQLIDPA 229
Qy 170 MFDQAQTEIOAVMEENAYQVFLTSDIYLEYVRSRGENTAYMS--NGGLGSLKVLGCLYPT 227
Db 230 MFDQAQTEIOATMEENTYPSFLKSDIYLEYVTRTSESFKVCSQDSSGSGTGKISGYLPT 289
Qy 228 LNEEEWTC-----ADLKCLSPYVVGSLSKTLRATASVRSSTETETENGFRSPKR 276
Db 290 LNEDEWKCQDMDDEDGRDAAPPGLR-POKLLLETAAPRVSSSRYSRSEFRYGSWR- 347
Qy 277 SDPNVPHVGVGFAPATANDSE---LSSDALTDSDMSMTDSDVDGVPVPMGSKQL 333
Db 348 -EPVNYVYVAGYALAPATANDSEQQSLSDA---DTLSLTDSDVDGIPIYRI--RKQH 401
Qy 334 QREMHRSVKANGQVSLPHFRTHRLPKEMTPVEPAFAAEILISRLKLEKLESHSLSEE 393
Db 402 RREMQESVQVNGRVPLPHI PRTYRVPEVR-VEPQFAEELIHRLEAVQVREAEKLEE 460
Qy 394 RLQIREDDEKEGSEQALSRRDGPVQ-----HPLALLPS-----G 429
Db 461 RLKRVMEEGE-----DGDPSGPPGPGCHKLPAPAWHHFPPRLCWTMACAGLRD 511
Qy 430 SYEEDPQITLDDHLRSVLKTPGCOSPGVGRYSRSPRSDPHHHQHHHQCHTLSTGGLK 489
Db 512 AHEENPESILDEHVORVLTTPGQSPG-----PGRSPDSGHV-----AKM 552
Qy 490 PPVAAACPLLGKGSFLTKOTTK-----HVVHHYIHHHVAVPKTKBEIEAEATQVRVC 539
Db 553 PVALGGAASGHGKVPKSGAKLDAAGLHHRHHVHHV--HISTARPEQVEAEATRAQS 610
Qy 540 LCPGTDYCYYSK-----CKSHPKAPEPLPGEQFCGSRGGLPKENAKGTPEGLALSARD 594
Db 611 SPWGLEPHSHGARSGRYSSESVAAPNASDGLAHSG-KVGVACKENAKKASGKGAST-- 667
Qy 595 GMSAAAGGPOLPG--EEGDRSQDVWQWMLSEERO---SKSKPHSAQSTIRKSYPLESARA 649
Db 668 -----EVPGASEDAENKQKIMQWIIIEGEKESIRHRRRTGHGSSGSTRKPPQPHENSRP 717
Qy 650 APGERVSRHLLGASGHSRVARAHFFTODPAMPPLTPPNTLAQLEECRRRLAEVSK--- 706
Db 718 -----LSLEHPWAGPQLRTSVQPSHLFIQDPTMPPHAPNLTQLEEARRELEEEKRAAS 772
Qy 707 --PQQRCCVASQORDNRHNSAQAQASPFANP-----SLAPEDHKEPKKLASV 753
Db 773 RAPSKQRYVQEVNR-----GRACVRPACAPVHLVVVPAVSDMELSETETRSQRKVGGS 825
Qy 754 HALQASLVVITYFCGBEIPYRRMKQSLTLGHFKQSLKKGNYRYFFKASDEFACGA 813

Db 826 SAQPCDSIVVAYFCGEPIPYTLVRGRAVTLGQFKELLTKGYSRYFYFKVSDPDCGV 885

Qy 814 VFEIWDDETLPVMEGRILGKVERID 840

Db 886 VFEVEDEAVLPVFEKIIGKVKD 912

RESULT 6

US-10-264-049-2846

Sequence 2846, Application US/10264049

Publication No. US20040005579A1

GENERAL INFORMATION:

APPLICANT: Birse et al.

TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

FILE REFERENCE: PA133P1

CURRENT APPLICATION NUMBER: US/10/264,049

CURRENT FILING DATE: 2002-10-04

PRIOR APPLICATION NUMBER: PCT/US01/18569

PRIOR FILING DATE: 2001-06-07

PRIOR APPLICATION NUMBER: US 60/209,467

PRIOR FILING DATE: 2000-06-07

NUMBER OF SEQ ID NOS: 4360

SOFTWARE: PatentIn ver. 3.1

SEQ ID NO 2846

LENGTH: 347

TYPE: PRT

ORGANISM: Homo sapiens

NAME/KEY: MISC FEATURE

LOCATION: (204)

OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids

FEATURE:

NAME/KEY: MISC FEATURE

LOCATION: (240)

OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids

US-10-264-049-2846

Query Match 36.3%; Score 1615.5; DB 4; Length 347;

Best Local Similarity 86.5%; Pred. No. 4.7e-106;

Matches 300; Conservative 13; Mismatches 33; Indels 1; Gaps 1;

Qy 495 CPLGGKSLTKQTKVHHVYIHHAVPKKEIEAEATORVCLCPGGTDYCYSKCK 554

Db 1 CPLGGKGFVTKQTKVHHVYIHHAVPKKEIEAEATORVHCFPGSEYCYSKCK 60

Qy 555 SHKRAPPLPGEQFCGSRGGTLPRNAGTGPGLALSARDGMSAAGGPOLPGBEGDRS 614

Db 61 SHKRAPETMPSEQFGSRGSLPKENGKGTFFGLALPAREGAPCGAGALQIPREEDRS 120

Qy 615 QDVNMWLESRSQSKPHSAQSIKSYPLSARAAPGERVSRHLLGA-SCHGRSVARA 673

Db 121 QDVNMWLESRSQSKPHSAQSKKAYPLSARSSPGERASRHHLWGCNCHPRTTTPRA 180

Qy 674 HPFTQDPAMPPLTPNTLAQLEACRRLAEVSKPKQKORCCVASOORDRSHSAGQAGSP 733

Db 181 HLFTQDPAMPPLTPNTLAQLEACRRLAEVSKPKQKORCCVASOORDRSHSATVQTGATX 240

Qy 734 FANPSLAPEHKEPKKLASVHALQASELVVYFFCGEIPYRMLKAQSLTGHFKEQLS 793

Db 241 FSNPSLAPEDHKEPKKLAVHALQASELVVYFFCGEIPYRMLKAQSLTGHFKEQLS 300

Qy 794 KKGNYRYFKASDEFACGAVFEIWDDETLPVMEGRILGKVERID 840

Db 301 KKGNYRYFKASDEFACGAVFEIWDDETLPVMEGRILGKVERID 347

RESULT 7

US-10-786-720-36

Sequence 36, Application US/10786720

Publication No. US2004019181A1

GENERAL INFORMATION:

APPLICANT: wyeach

APPLICANT: O'Toole, Margot

APPLICANT: Liu, Wei

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE

TITLE OF INVENTION: DISEASES

FILE REFERENCE: 031896-023000 (AM101331L)

CURRENT APPLICATION NUMBER: US/10/786,720

CURRENT FILING DATE: 2004-02-26

NUMBER OF SEQ ID NOS: 21135

SOFTWARE: PatentIn version 3.2

SEQ ID NO 36

LENGTH: 826

TYPE: PRT

ORGANISM: Homo sapiens

US-10-786-720-36

Query Match 36.3%; Score 1612.5; DB 4; Length 826;

Best Local Similarity 42.1%; Pred. No. 2.6e-105;

Matches 380; Conservative 124; Mismatches 239; Indels 159; Gaps 29;

Qy 12 DPSSSPREDAPRPVPVGEGETPPCQPSGVKQVOSTKMPVSV-----SN 54

Db 11 DLGASFTEDAPRPVPVGEGE-----LVSTDPSPASYSFCGKGVGIKGETSTAT 60

Qy 55 ARNEDGLG-EPEGRASPDSPLTRWTKSLHSLLLGQDQGAYLFRTELEKCKVDTLDFWFA 113

Db 61 PRSDLDLGYEPESASPTPYLKWAESLHSLLLDDQDGLSLFRTELEKCGCADLLDFWFA 120

Qy 114 CNGRFQNLKDT---KTLRVAKAIYKRYI-ENNSVSVSKOLKPKATKYIRDGKIKKQOIGSV 169

Db 121 CTGFRKLEPCDSNEBKRLKARAYKRYILDNNGIVSRQTKPATKSFIKCMKQLIDPA 180

Qy 170 MFDQAQTEIQAVMEENAYQVLTSDIYLEYVRSRGENTAYMS--NGLGSLKVLGCLPT 227

Db 181 MFDQAQTEIQATMEENTYPSFKSDIYLEYTRTGSEPKVCSDQSSSGTGKIGISGLPT 240

Qy 228 LNEEEMTC-----ADLKCKLSPYVVGSLSSKTLRATASVRSTETAEANGFRSPKR 276

Db 241 LNEEEMKCDQDMDDEDDGRDAAPGRL-PQKLLLETAAPRVSSRRYSEGREFRYGSWR- 298

Qy 277 SDPVNPHVGGYVPAPATSANDSE---LSSDALTTDDSMSTDDSSVDGVPPVPMGSKQL 333

Db 299 -EPVNPVYVAGYALAPATSANDSEQQSLSDA---DTLSLTDDSSVDGIPPVYRI--RKQH 352

Qy 334 QREHRSVKANGQVSLPHFPPTHRLPKEMTVPEPAFAAEILISRLKLEKLESHRSLEE 393

Db 353 RREMQESVQVNGRVLPHPHPRTPRYVPKEVR-VEPOKFAEELIHRLEAVQRTREAEKLEE 411

Qy 394 RLOQIRDEEKEGSEALSSRDG-----APVOH--PLALLPSG-----SYEDDPOTI 438

Db 412 RLKVRMEEGEDGDPG-SGPPGCHKLPPAPAWHHFPPRCVDMGCAGLRDAHEENPESI 470

Qy 439 LDDHLSRVLTPTGCGSPGVGRYSRPSRSPDHHHHQHQQCHTLLSTCGKLPVPAACPLL 498

Db 471 LDEHVQVRLRTPGRQSPG-----PCHRSPPDSGHV-----AKMPVALGGAAS 511

Qy 499 GKGKFLTKQTK-----VHHHHYIHHHVPKTEEIEAEATORVCLCPGTDYY 548

Db 512 GHGKHPKSGAKLDAAGLHHHRHHVHVV--HHSTARPEQVEAEATRAQSSFAWGLEPH 569

Qy 549 CYSK-----CKSHKPAPELPGEQFCGSRGGTLPRNAGTGPGLALSARDGMSAAGG 603

Db 570 SHGARSRGYSVCAAPNASDGLAHSG-KVGVAACKNAKKAESGKSAST-----617

Qy 604 POLFG--EBCDRSQDVQMWMLESBQ-----SKSKPHSAQSIRKSYPLSARAAPGRVSRH 658

Db 618 -EVPGASEDAEKQKIMQWIEGEKEISRHRRTGHGSSGTRKPKQPHENSRLP-----LSLE 671

Qy 659 HLLGASGHSRSVARAHPTQDPAMPPLTPNTLAQLEACRRLAEVSKPKQKORCCVASQ 718

Db 672 HPWAGPOLRTSVQPSHLFIQDPTMPHPAPNPLTLQLEARRRLEE---BEKRSRAPSQ 728

Qy 719 RDRNHSAGQAGASPFANPSLAPEDHKEPKKLASVHALQASELVVYFFCGEIPYRML 778

Db 729 RTRSRKVGGSQAQ-----CDSIVVAYYFCGEIPYRILV 764

QY 779 KAQSLTLGHFKQLSKGNRYRYFKKASDEPACGAVFBEIWDDETVPMEGRILGKVER 838
Db 765 RGRVTLGQFKELLTKGKSYRYFYFKVDFDEFCGVFBEVREDEAVLPVFEKILGKVEK 824
QY 839 ID 840
Db 825 VD 826
RESULT 8
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; FILE REFERENCE: 032796-021
; CURRENT APPLICATION NUMBER: US/10/374,979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/543,771
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 109
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-374-979-91
Query Match 36.1%; Score 1605; DB 4; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;
QY 12 DPSSSFREDAPPPVGEGETPPCQPSVGKQVQSTKMPVUS-----SN 54
Db 48 DLGASFTEDAPPPVGEGETPPCQPSVGKQVQSTKMPVUS-----SN 54
QY 55 ARNEDGLG-EPEGASPDSPLTRWTKSLHSLGDDGAYLFRTLEREKCVDTLDFWFA 113
Db 98 PRSRDLGVEPEGSASPTPPYLKWAESLHSLDDDDGSLPRTFLKQGGCADDLDFWFA 157
QY 114 CNGFQMLNLDKDT---KTLRVAKAIYKRYI-ENNSVVKQKLPATKYIRDGIKKQOIGSV 169
Db 158 CTGFKLEPCDSNEEKGLARAIYKRYILDNNGVSRQTKPATKSFKICIMKQLIDPA 217
QY 170 MFDQAQTEIQAVERNAYQVLTSDIYLYBYRSGGENTAYMS--NGGLSKVLGCLYPT 227
Db 218 MFDQAQTEIQAVERNAYQVLTSDIYLYBYRSGGENTAYMS--NGGLSKVLGCLYPT 277
QY 228 LNEEEBWC-----ADLKCKLSPTVVGLSKTLRATASVRSSTETAEGRSPFKR 276
Db 278 LNEEBEWCDDQMDDEDGDRADAPPGRLL-PQKLLLETAAPRVSSRRYSREGRFYGSWR- 335
QY 277 SDPVNPNYHVGSGVYFAPATSSANDSE---LSSDALTDSSMTDSSVDGVPYRMSKKQL 333
Db 336 -EPVNPYNNAGYALAPATSSANDSEQQSLSSDA---DTLSLTDSSVDGIPPYRI--RKQH 389
QY 334 QREMRHSVKANGOVSLPHPTTRHPKEMTPVPEAPFAELISRLKLEKLESHSLSE 393
Db 390 RREMQESAQVNGRVPLPHPTTRHPKEMTPVPEAPFAELISRLKLEKLESHSLSE 448
QY 394 RLQOIREDEKEGESEQALSSRGAPVQ-----HPLALLPS-----G 429
Db 449 RLKRVMESEGE-----DGDPSGSGPPGCHKLPPAPAWHPPRLCWTWACAGLRD 499

QY 430 SYEEDPOTILDHLSRLVLTFCQSPGVGRYSPRSRSPDHHHHHHHOCHTLLSTGGKL 489
Db 500 AHEENPESILDEHVORVLRITGROSPG-----PGRHSPDSGHV-----AKM 540
QY 490 PVAAACPLLGKGSFLTQKTTK-----HVHHHYTHHHAVPKTKKEIEAEATQVRVC 539
Db 541 PVALGGAASGHGKHVPKSGAKLDAAGLHHHRHHV--HHSATPKQVQVEAEATRAQS 598
QY 540 LCPGGTDYYCYSK-----CKSHPKAPEPLPGECFSGSGGTLPKRNAXGTPEGLALSARD 594
Db 599 SPANGLEPHSHGARSRGYSVGAAPNASDGLAHSG-KVGVACKKNACKAESGKSAST-- 655
QY 595 GGMSSAAGGPOLPG--BEGDRSQDVQWMLSERO---SKSKPASHAQSIKSYPLESARA 649
Db 656 -----EVPGASEDAENQKIMOWIIEGEKEISRHRRTGHSGSSTRKPOPHENSRP 705
QY 650 APGERVSRHILLGASGHSVARAHPTQDPAMPPLTPPNTLAQLLEACRRLAEYSK--- 706
Db 706 -----LSLEHPWAGPOLRTSVQPSHLFIQDPTMPHPAPNPLTQLEEARRLLEBEKRA 760
QY 707 --PQORCCVASQORDNRHNSAAGQAGASPPANP-----SLAPEDHKPEKKLASV 753
Db 761 RAPSKQRYVQVEMRE-----GRACVRPACAPVLHVVPVAVSDMELSETETRSQKVG 813
QY 754 HALQASELVVYTFGCEBIPYRMLKAQSLTLGHFKQLSKGNRYRYFKKASDEFACGA 813
Db 814 SAQPCDSIVVAYYFCGEPYRVLVGRVAVTLGQFKELLTKGSIYRYFKKVSDFDCGV 873
QY 814 VPEEITWDETLPVMEGRILGKVERID 840
Db 874 VFEVREDEAVLPVFEKILGKVEKD 900
RESULT 9
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-182-936A-91
Query Match 36.1%; Score 1605; DB 4; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;
QY 12 DPSSSFREDAPPPVGEGETPPCQPSVGKQVQSTKMPVUS-----SN 54
Db 48 DLGASFTEDAPPPVGEGETPPCQPSVGKQVQSTKMPVUS-----SN 54
QY 55 ARNEDGLG-EPEGASPDSPLTRWTKSLHSLGDDGAYLFRTLEREKCVDTLDFWFA 113

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Db 98 PRRSOLDLGYEPGASPTPPYLKWAESLHSLDDQDGLSFLRTFLKQEGCADLLDFWFA 157
Qy 114 CNGFRMLNKT---KTLRVAKAIYKRYI--ENNSVVSUKOLKATKTYIRDGIIKQOIGSV 169
Db 158 CTGFRKLEPCDNEEKRLKARAIYKRYLDNNGIVSRQTKATKSFYKCMKQLIDPA 217
Qy 170 MFDQAOQTEIOAVMEENAYOVFLTSDIYLEYVRSRGENTAYMS--NGGLGSLKVLCOYLPT 227
Db 218 MFDQAOQTEIOATMEENTYPSFLKSDIYLEYTRTGSSEPKVCSQDQSGSGTGKIGSYLPT 277
Qy 228 LNEEBEWT---ADLKCKLSPTVVGLSKTLRATASVRSSTETAEANGRSFGR 276
Db 278 LNEEBEWT---ADLKCKLSPTVVGLSKTLRATASVRSSTETAEANGRSFGR 335
Qy 277 SDVPNYPYHVGSGYVPAPATSAANDSE---LSSDALTDSDMSMTDSSVDGVPYPMGSKKQL 333
Db 336 -EPVNPYYNAGYALAPATSAANDSEQOQLSSDA---DTLSLTDSSVDGIPYRI--RKQH 389
Qy 334 QREHRSVKANGQVSLPHPRTHRLPKEMTPVEPAFAELISRLKLEKLESHRSLEE 393
Db 390 RREMQESAQVNGRVPPLPHIPRTYRVPKEVR--VEPOKFAEELIHRLEAVQRTREAEKLEE 448
Qy 394 RLQOIREDDEEKEGSEQALSSRDGAPVQ-----HPLALLPS-----G 429
Db 449 RLKRYRMEEGE-----DGDPSGPPGCHKLPPAPAWHHPPRLCMTWACAGLRD 499
Qy 430 SYEEDPOTILDDHLRSLVLTGPGQSGVGRYSPRSRSPDHHRHHQHHQOCHTLLSTGGKL 489
Db 500 AHEENPESILDEHVORVLTTRGQSPG-----PGRSPDSGHV-----AKM 540
Qy 490 PPVAACPLLGKGSFLTKOTTK-----HVVHHYIHHHVAVPTKEIEAEATQVRVC 539
Db 541 PVALGGAASGHGKHVPKSGAKLDAAGLHHHRVHHV--HHSTARPKQVEAEATRAQS 598
Qy 540 LCPGTDYCYYSK-----CKSHPKAPEPLPGQFCGSRGGTLPKNAKGTPEGLALSARD 594
Db 599 SPAWGLEPHSHGARSRGYSESVGAAPNASDGLAHSG--KVGACKNAKNAKESGKAST-- 655
Qy 595 GMSAAAGGPOLPG--EEGDRSQDVQWMLSERO---SKSKPHSAQSIKRSYPLESARA 649
Db 656 -----EVPGASEDAEKNOKIMOWIIEGEKEISRHRRTGHGSSGTRKPOPHENSRP 705
Qy 650 APGERVSRHLLGASGHSRVARAHPTQDPAMPPLTPNTLAOLEEACRLAEVSK--- 706
Db 706 ----LSLEHPWAGPOLRTSVQPSHLFIQDPTMPHPAPNPLTQLEEARRRLESEKRAAS 760
Qy 707 --PQORCCVASQOQDRNHSAGAGASFPFANP-----SLAPEDHKEPKKLASV 753
Db 761 RAPSORYVQVEMRR-----GRACVRPACAPVLHVVPVAVSDMELSETETRSORQVGG 813
Qy 754 HALQASELVVYFFCGEBIPYRMMLKQASLTGLHFKEQLSKKGNRYRYFKKASDEFACGA 813
Db 814 SAQPCDSIVVAYYFCGEPIPYRTLVGRVAVTLGQFKELLTKGSRYYFKKVSDFDCGV 873
Qy 814 VPEETWDETVLPMYEGRIKQVERID 840
Db 874 VFEEVREDEAVLPVPEEKIIGKEKVD 900
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RESULT 10

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US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
```

```
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670
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Query Match 36.1%; Score 1605; DB 5; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;
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Qy 12 DPSSSFREDAPRPPVGEGETPPCQPSVGKVOSTKMPVMS-----SN 54
Db 48 DLGASFTEDAPRPPVGEGETPPCQPSVGKVOSTKMPVMS-----LVSTDPASYSFCSGKGVIGKGTSTAT 97
Qy 55 ARNEDGLG--EPGGRASPDSPLTRWTKLSLHSLGDDGAYLFRFLEREKCVDTLDFWEA 113
Db 98 PRRSOLDLGYEPGASPTPPYLKWAESLHSLDDQDGLSFLRTFLKQEGCADLLDFWFA 157
Qy 114 CNGFRMLNKT---KTLRVAKAIYKRYI--ENNSVVSUKOLKATKTYIRDGIIKQOIGSV 169
Db 158 CTGFRKLEPCDNEEKRLKARAIYKRYLDNNGIVSRQTKATKSFYKCMKQLIDPA 217
Qy 170 MFDQAOQTEIOAVMEENAYOVFLTSDIYLEYVRSRGENTAYMS--NGGLGSLKVLCOYLPT 227
Db 218 MFDQAOQTEIOATMEENTYPSFLKSDIYLEYTRTGSSEPKVCSQDQSGSGTGKIGSYLPT 277
Qy 228 LNEEBEWT---ADLKCKLSPTVVGLSKTLRATASVRSSTETAEANGRSFGR 276
Db 278 LNEEBEWT---ADLKCKLSPTVVGLSKTLRATASVRSSTETAEANGRSFGR 335
Qy 277 SDVPNYPYHVGSGYVPAPATSAANDSE---LSSDALTDSDMSMTDSSVDGVPYPMGSKKQL 333
Db 336 -EPVNPYYNAGYALAPATSAANDSEQOQLSSDA---DTLSLTDSSVDGIPYRI--RKQH 389
Qy 334 QREHRSVKANGQVSLPHPRTHRLPKEMTPVEPAFAELISRLKLEKLESHRSLEE 393
Db 390 RREMQESAQVNGRVPPLPHIPRTYRVPKEVR--VEPOKFAEELIHRLEAVQRTREAEKLEE 448
Qy 394 RLQOIREDDEEKEGSEQALSSRDGAPVQ-----HPLALLPS-----G 429
Db 449 RLKRYRMEEGE-----DGDPSGPPGCHKLPPAPAWHHPPRLCMTWACAGLRD 499
Qy 430 SYEEDPOTILDDHLRSLVLTGPGQSGVGRYSPRSRSPDHHRHHQHHQOCHTLLSTGGKL 489
Db 500 AHEENPESILDEHVORVLTTRGQSPG-----PGRSPDSGHV-----AKM 540
Qy 490 PPVAACPLLGKGSFLTKOTTK-----HVVHHYIHHHVAVPTKEIEAEATQVRVC 539
Db 541 PVALGGAASGHGKHVPKSGAKLDAAGLHHHRVHHV--HHSTARPKQVEAEATRAQS 598
Qy 540 LCPGTDYCYYSK-----CKSHPKAPEPLPGQFCGSRGGTLPKNAKGTPEGLALSARD 594
Db 599 SPAWGLEPHSHGARSRGYSESVGAAPNASDGLAHSG--KVGACKNAKNAKESGKAST-- 655
Qy 595 GMSAAAGGPOLPG--EEGDRSQDVQWMLSERO---SKSKPHSAQSIKRSYPLESARA 649
Db 656 -----EVPGASEDAEKNOKIMOWIIEGEKEISRHRRTGHGSSGTRKPOPHENSRP 705
Qy 650 APGERVSRHLLGASGHSRVARAHPTQDPAMPPLTPNTLAOLEEACRLAEVSK--- 706
Db 706 ----LSLEHPWAGPOLRTSVQPSHLFIQDPTMPHPAPNPLTQLEEARRRLESEKRAAS 760
Qy 707 --PQORCCVASQOQDRNHSAGAGASFPFANP-----SLAPEDHKEPKKLASV 753
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Db 761 RPSKQRYQVEMRR-----GRACVPACAPVLHVPAVSDMELSETETRSQKVGCG 813
Qy 754 HALQASELVVYFFCCBEIPIYRMLKAQSLTGLHFKQSLKGNVRYVYFKKASDSFACGA 813
Db 814 SAQPCDSIVVAYYFCGEPYPTLVRGRAVTLTGQFKELLTKGYSRYYPKVSDBFDCGV 873
Qy 814 VFEIWDDETLPVMEGRILGKVERID 840
Db 874 VFEVREDEAVLPVFEKIIGKVKVD 900

RESULT 11
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: Babij, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; PRIOR FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match 36.1%; Score 1605; DB 5; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;

Qy 12 DPSSSPREDAPPPVGEGETPPCQPSVGVKQVSTKPMVPS-----SN 54
Db 48 DLGASPTDAPPPVGEERGE-----LVSTDPREASVFCGKGVGKGTSTAT 97
Qy 55 ARNEDGLG-EPEGASPDSPTRWTKSLHSLLDGDDGAYLFRTELEKEKCVDTLDFWPA 113
Db 98 PRSDLDLGEPEGASPTPPYKWAESLHSLDLDGGLSLFRTELEKEKCVDTLDFWPA 157
Qy 114 CNGFQOMNLKDT---KTLRVAKIYKRYI-ENNSVVSQKLPKATYIRDGKIKQOIGSV 169
Db 158 CTGFRKLEPCDSNEERKRLARAYRKYILDNNIVSRQTKPATKSFIRKICMQLIDPA 217
Qy 170 MFDQAQTEIQAVNEENAYQVFLTSDIYLYSVRSGGENTAYMS--NGGLGSLKVLGYLPT 227
Db 218 MFDQAQTEIQATMEENTYFSLKSDIYLYTRTGSSEPKVQSDGSGGTGKIGYLPT 277
Qy 228 LNEEREWTC-----ADLKCKLSPTVVGLSKTLRATASVRSTETAENGFRSFKR 276
Db 278 LNEDEWKCQDMDDEDGDAAPPGLR-PQKLLLETAAPRVSSRRYSRSEGRFYCSWR- 335
Qy 277 SDPVNPIHYGSGVYFAPATSANDSE---LSSDALTDSDMSMTDSSVDGVPYRMSKKQL 333
Db 336 -EPVNPYYNAGYALAPATSANDSEQQSLSSDA---DTLSLTDSSVDGIPPYRI--RKQH 389
Qy 334 QREMRHSVKANGVSLPFPTRHLPKEMTPPEAPFAAELISRLKLEKLESRLSE 393
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Db 390 REMQESAQVNGRVPLPHIPRTYRVPKEVR-VEPOKFAEELIHRLEAVORTREAEKLEE 448
Qy 394 LIQIUREDEEKEGSEQALSSRDGAPVQ-----HPLALLPS-----G 429
Db 449 RLKRVMEEGE-----DGDSSGPPGCHKLPPAPAMHFFPRLCMTWACAGLRD 499
Qy 430 SYEEDPQITLDHLRVLKTPCQSPGQVGRVSPRSPDHQHQQHHOCHTLLSTGGK 489
Db 500 AHEENPESILDEHVQRLTTRGQSPG-----PGRSPDSGHV-----AKM 540
Qy 490 PPVAACTLLGCKSLTKOTTK-----HVHHYIHHHVAVPKTKBEIEAEATORVRC 539
Db 541 PVALGGAASGHGKHVPKSGAKLDAAGLHHHRHVHHV--HHSTARPKOEVEAEATRAQS 598
Qy 540 LCPGGTYYCYSK-----CKSHPKAPEPLPGFCGSRGGTLPRKNAKGTPEGLALSARD 594
Db 599 SPFWGLGPHSHGARGSGYSEVGAAPNASDGLAHSG-KVGVACKNAKKAESGKSAST-- 655
Qy 595 GCMSSAAGGPQLPG--EGDRSODVWQWMLSERO---SKSPHSAQSIKSYPLESARA 649
Db 656 -----EVFGASEDAEKQKIMQWIIIEGEKEISRHRRTGCHGSSGTRKQPHENSAP 705
Qy 650 APGERVSRHLLGASGHSRVARAHPTQDPAMPPLTPPNTLAQLEAEACRRLAEVSK--- 706
Db 706 -----LSLEHPWAGPOLRTSVQPSHLFIQDPTMPHPAPNPPLTQLEEARRRLEEBEKRAS 760
Qy 707 --POKORCCVASOQRDRNHSAGAGASPFANP-----SLAPEDHKEPKKLASV 753
Db 761 RAPSQRVYQVEMRR-----GRACVPACAPVLHVPAVSDMELSETETRSQKVGCG 813
Qy 754 HALQASELVVYFFCCBEIPIYRMLKAQSLTGLHFKQSLKGNVRYVYFKKASDSFACGA 813
Db 814 SAQPCDSIVVAYYFCGEPYPTLVRGRAVTLTGQFKELLTKGYSRYYPKVSDBFDCGV 873
Qy 814 VFEIWDDETLPVMEGRILGKVERID 840
Db 874 VFEVREDEAVLPVFEKIIGKVKVD 900
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RESULT 12

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US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match 36.1%; Score 1605; DB 5; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
```



```
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (7)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (12)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (48)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-106-698-5828
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Query Match 16.5%; Score 733; DB 4; Length 155;

Best Local Similarity 90.8%; Pred. No. 6.4e-44;

Matches 139; Conservative 3; Mismatches 11; Indels 0; Gaps 0;

```
Qy 698 PNTLAQLBEACRLAEVSKPKQKQCCVSAQOQDRNHSAGAGPFPANPSLAPEDHKEP 747
Db 3 PTXWQLBEXCRRLAEVSKPKQKQCCVSAQOQDRNHSATVQTGATXFSNPSLAPEDHKEP 62
Qy 748 KKLASVHALQASLVVTFYFCGEEIPYRRMLKAQSLTLGHFKQSLKKGNYRYFFKQASD 807
Db 63 KKLASVHALQASLVVTFYFCGEEIPYRRMLKAQSLTLGHFKQSLKKGNYRYFFKQASD 122
Qy 808 EFACGAVFEEIWDDETLPVMEYEGRIKGVVERID 840
Db 123 EFACGAVFEEIWDDETLPVMEYEGRIKGVVERID 155
```

RESULT 15

```
US-11-097-143-3015
; Sequence 3015, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3015
; LENGTH: 745
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-3015
```

Query Match 10.3%; Score 457.5; DB 6; Length 745;

Best Local Similarity 22.2%; Pred. No. 2.2e-23;

Matches 212; Conservative 125; Mismatches 277; Indels 341; Gaps 39;

```
Qy 13 PSSSFRED-----APRPVGEGETPPCQSVGVKQSTKMPVSSNARNEDGLGEPEG 67
Db 5 FSGIRKDDNCSGRPPVPGEE-----SRVKMTGEGVADTSK 42
```

```
Qy 68 RASPDSPLTRWTKSLHSLILGDDQDAYLPRTELEKCV--DTLDFWPAACNGFRQMLKDT 125
Db 43 NSSPS--YLNWARTLNHLLDRDGVLFKPYVEEAPAYNDHLNFPYFACEGLKQOT-DPE 99
Qy 126 KTLVAKAIYKRYIENNSVSKQJLKPATKYTIROGIKKQ---QIGSVWFDAQTEIQAVM 182
Db 100 KIKIIGAIYRFLKRSQSLISDDLRQIKF-----AIKTNPEIPLSPHIFDPMQRIHEVTI 154
Qy 183 EENAVQVPLTSDIYLEYVR-----SG--GENTAYMSGGIGSLKVLGCVLPTLN 229
Db 155 RDNYPFTFLCSEMYILYIQMSAQOERCTSGATGSGAGSGSGGSLAGACALPPTTA 214
Qy 230 EEEE-----WTCADLKCKLSPTVVGSLSKTLRATASVRSTE 265
Db 215 SGKQQLPOLVPPGAFINLPVSSVSGPPAGTCSAGSVYGPSTSSASSSGSISATDTLPRSS 274
Qy 266 T-----AENG-----FRSFKESD 278
Db 275 TLPTLHEDSVLSLCLDDFEKQVQEGGSLGSGSVGAGARAPDYPILRLTRDLLIATQKRL 334
Qy 279 PVNYPYHVGSGYVPAPAT-----SANDSE---LSSDALTD-DSMSTDSVDCVPPYR 326
Db 335 EIRP-PGAHGYVNPSTNTSYVNSRVDSEASVSSGGRDSDTMSISSCSMDGRPIQ 393
Qy 327 MSGKKQLQREMHRSVKANGQV-SLPHPFRTHRL-PKEMTPVEPAFAAELISRLKLE 384
Db 394 RHSTESKAIROSAMANKETNTQVTPRTQRLHNEHRLKEBELVSLIPKLE---E 449
Qy 385 LESRHSLEERLQO-----IREDEKEGSEALSRDQAPVQHPLALLPSSGYEEDPQTI 438
Db 450 VKRKDLLEERARERNPGAALLTNERSSASDRAPAB---AIREKFAI-----DEDNDQDI 500
Qy 439 LDDHLRVLTKTPGCGSPGVGRYSPRSRSPDHQHQQHQQCHTLLSTCGKLPVVAACPLL 498
Db 501 LDQVSRVWKD---QTP-----HRSP-----GTMSF----- 523
Qy 499 GKGSFLTQTTKVVHHHHYHHHVAVPKTEIEAEATQVRCLPCGCTDYCYCKCKSHPK 558
Db 524 -----CP----- 525
Qy 559 APEPLGCEQFCGSRGGTLPKENAKTEPGLALSARDGMSAAGGPOLPBGEDRSQDVM 618
Db 526 ---PIP-----SRRT-----ATHDSGMVS-DGMSLSG----- 550
Qy 619 QWMLSESRQSKSP-HSAQSIKSYPLESARAAPG-----ERYSRHLLGASGHSRVA 671
Db 551 ----HSMKHSKSMDFHSCSRKLTNKWPSMNTDGSIMFSADTVTKYK--DASSRSGS-- 602
Qy 672 RAHPFTQDPAMPPLTPPNTLAQLBEACRLAEVSKPKQKQCCV-----ASQORDRNHSA 725
Db 603 -----STASKLEAKRRLD--EPRSRRYAQPMPMOHLSSQQLASFSS 643
Qy 726 AGQAGASPPANPSLAPEDHKEPKKLASVHALQASLVVTFYFCGEEIPYRRMLKAQSLTL 785
Db 644 SSSGSGISL-----PHQPPPLPA-----KPETIVVFSFCEEPYIRIKIPCTQPTL 690
Qy 786 GHFKEQLSKKGNRYRYFFKQASDEFAACGAVFEEIWDDETLPVMEYEGRIKGVVERID 840
Db 691 RQFKDYLPRRGHPRFFFKTHCEDPDSVPIQIEIYVNDSDILPLFGDKAMGLVKPSD 745
```

Search completed: April 20, 2006, 16:06:42
Job time : 295.821 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 20, 2006, 16:00:23 ; Search time 46.5435 Seconds
 (without alignments)
 794.148 Million cell updates/sec

Title: US-09-587-574-1
 Perfect score: 4445
 Sequence: 1 MSSAVLVTLLPDPSSSFED.....DETLPVMEGRILGKVERID 840

Scoring table: BLOSUM62
 Gapop 10.0 ; Gapext 0.5

Searched: 225428 seqs, 44002918 residues

Total number of hits satisfying chosen parameters: 225428

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Published Applications AA New:*

- 1: /SIDSS/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 2: /SIDSS/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 3: /SIDSS/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 4: /SIDSS/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 5: /SIDSS/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 6: /SIDSS/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 7: /SIDSS/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 8: /SIDSS/ptodata/2/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1605	36.1	900	6	US-10-501-035-215
2	172.5	3.9	211	6	US-10-501-035-208
3	172.5	3.9	211	7	US-11-169-041-234
4	151.5	3.4	1618	6	US-10-984-645-2
5	151.5	3.4	1618	7	US-11-132-687-2
6	149	3.4	2505	7	US-11-126-313-33
7	148	3.3	496	7	US-11-096-568A-29371
8	148	3.3	548	7	US-11-096-568A-29370
9	148	3.3	684	7	US-11-096-568A-29369
10	147.5	3.3	578	6	US-10-821-234-1039
11	139	3.1	2392	6	US-10-330-773-907
12	138.5	3.1	1690	6	US-10-330-773-389
13	138	3.1	2311	6	US-10-469-469-54
14	137	3.1	748	6	US-10-821-234-888
15	136.5	3.1	880	7	US-11-087-099-950
16	136.5	3.1	8746	7	US-11-098-686-10232
17	130	2.9	1134	6	US-10-204-639-11
18	129.5	2.9	717	7	US-11-121-438-10
19	128	2.9	915	6	US-10-995-561-1003
20	128	2.9	917	6	US-10-995-561-1000
21	128	2.9	940	6	US-10-995-561-1004
22	128	2.9	969	6	US-10-995-561-1001
23	128	2.9	971	6	US-10-995-561-998
24	128	2.9	994	6	US-10-995-561-997
25	128	2.9	2343	6	US-10-330-773-904

ALIGNMENTS

RESULT 1

US-10-501-035-215
 ; Sequence 215, Application US/10501035
 ; Publication No. US20060046249A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bristol-Myers Squibb Company
 ; TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR PREDICTING
 ; TITLE OF INVENTION: ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE PATHWAYS
 ; TITLE OF INVENTION: AND/OR PROTEIN TYROSINE KINASE PATHWAYS
 ; FILE REFERENCE: D0185 PCT
 ; CURRENT APPLICATION NUMBER: US/10/501,035
 ; PRIOR FILING DATE: 2004-07-09
 ; PRIOR APPLICATION NUMBER: US 60/350,061
 ; PRIOR FILING DATE: 2002-01-18
 ; NUMBER OF SEQ ID NOS: 795
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 215
 ; LENGTH: 900
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-501-035-215

Query Match 36.1%; Score 1605; DB 6; Length 900;
 Best Local Similarity 41.2%; Pred. No. 2.2e-107;
 Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;

Qy	12	DPSSSFEDAPRPVPGEGETPCCQPSVGKQSTKMPVS-----SN 54
Db	48	DLGASFTEDAPRPVPGEGETPCCQPSVGKQSTKMPVS-----LVSTDRPASYSFCSGKGVKIGETSTAT 97
Qy	55	ARNEDGLG-EPEGRASPDPLTRWTKSLHLLGDQDQCAVLFRTFLEREKCVDTLDFMFA 113
Db	98	PRSDLDLGYEPEGSASPTPYLKWAESLHLLDQDQISLFRFLKQEGCADDLDFMFA 157
Qy	114	CNGFRQNLKDT---KTLRVAKAIYKRYI-ENNSVSKQPKPATKYIRDIKKQIGSV 169
Db	158	CTGFRKLPEDNSBEKELKLARIYKYIILNNGIVSRQTKPATKSFIKGICIMKQLDPA 217
Qy	170	MFOAQTEIOAVMEENAYQVFLTSDIYLVRSQGTANTYMS--NGGLGSLKVLGCVLPT 227
Db	218	MFOAQTEIOATWEENTYPSFLSKDIYLETTRGSESPKVCSDSSSGTGKIGISGLPT 277
Qy	228	LNEEEEWC-----ADLKCKLSPTVVGSSKTLRATASVRSSTETAEANGFRGPKR 276
Db	278	LNEDDEWKCDQDMDDDGRDAAPPGL-PQKLLLETAAPRVSSRRYSRSEGRFPGYSWR- 335
Qy	277	SDPVPVHVGSGVFAFAPATSAANDSE----LSSDALTDSSMTSSVDGVPVPMGSKKQL 333

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336 - BFNVPYYNAGYALAPATSANDSEQSLSSDA---DTLSLTDSVDGIPPVRI--RKOH 389
334 QEMHRSVKANGQVSLPFPFRTHRLPKEMTVEPAFAABELI SRLKLELESRHSLEE 393
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
390 REMQESAQVNGRVPLPHIPRTYRVPEVR-VEPOKFABELIHRLAEAVQTREAEKLEE 448
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
394 RIQQIREBEEKSGEQALSRRDGPVQ-----HPLALLPS-----G 429
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
449 RLKVRMBEGE-----DGDPSSGPPGPCCHKLPAPAWHHFPPRLCWTMACAGLRD 499
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
430 SYEEOPOTLLDDHLRSVLTKPGCSQGVGRYSRPSRSDPDHHQHIIHQOCHTLSTGGKL 489
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
500 AHEENPESLDBHVORVURTTGRQSPG-----PGRSPDSGHV-----AKM 540
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
490 PPVAACPLLGGKSFLUTKTTK-----HVHHVIHHHAVPTKEBEIEABATQRVRC 539
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
541 PVALGGAASGHGKHVPKSGAKLDAAGLHHHRHVHHVV--HHSTARPKQEVEAETRAQS 598
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
540 LCPGGTDYYCYSK-----CKSHPKAPELPCEQPCGSRGGTLPRNAKGTGEPCLALSARD 594
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
599 SPAWGLEPHSHGARSGRYSESVGAPNASDLAHSG-KVGVACKRNAKKAESKSAST-- 655
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
595 GCMWSAAGGPOLPG--EGEDRSQDVOWMMLESERO---SKSKPHSAQSIKSYPLESARA 649
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
656 -----EVPGASEDRKNQKIMQWIIEGEKEISRHRTGHGSGGTKKQPHENSRP 705
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
650 APGERVSRRHLLGASHGRSVARAPHFTQDPAMPPLTPPNTLQAQLEAACRRLAEVSK--- 706
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
706 ----LSLEHPWAGPOLRTSVOPSHLFIQDPTMPHPAPNPPLQLSEARRRRLFEEBEKRAS 760
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
707 --POKORCCVASQORDRNHSAAGONGASPFPANP-----SLADHKPEPKKLASV 753
      |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
761 RAPSKORYVQEVNMR-----GRACVRPACAPVLHVVPVMSDMELSETETRSQRKVGG 813
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
754 HALQASLVVTYFFCGEEIPYRRMLKAQSLTLGHFKEQLSKGKNIGYRYFYFKKASDEPACA 813
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
814 SAQCDSIVVAYFCGEPIPYRTLVRGRAVTLTGQFKELLTKGSYRYYPKYVSDDEFDCGV 873
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
814 VFEEIWDDETULPWNYEGRILKVERID 840
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||
874 VFEVREDEAVLPVFEEKIIGKVKVD 900
      :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||

```

```

RESULT 2.
US-10-501-035-208
; Sequence 208, Application US/10501035
; Publication No. US20060046249A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR PREDICTING
; TITLE OF INVENTION: ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE
; TITLE OF INVENTION: AND/OR PROTEIN TYROSINE KINASE PATHWAYS
; FILE REFERENCE: D0185 PCT
; CURRENT APPLICATION NUMBER: US/10/501,035
; CURRENT FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: US 60/350,061
; PRIOR FILING DATE: 2002-01-18
; NUMBER OF SEQ ID NOS: 795
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 208
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-501-035-208

Query Match      3.9%; Score 172.5; DB 6; Length 211;
Best Local Similarity 26.9%; Pred. No. 3.9e-05;
Matches 46; Conservative 24; Mismatches 72; Indels 29; Gaps 4;

Qy      30 EGETPPCQPSVGKVQS-----TKMPVPVSSNARNRNDGLGPEGRASPDSPLTRWTKSLHSL 85
          :   :   :   :   :   :   :   :   :   :   :   :   :   :   :   :
db      50 QNSSTPGKPTGTGKKSQQAIFKPSPEAQ-----WSEAFDEL 87

```


QY 491 PVA-----ACPLGG-----KSFLTKQTKTHVHHYH 518
DB 944 QSAVQWEDTVEKDQLAQESPPGMAGVENKDEALNLRQDGFYGE-----992
QY 519 HHAUPTKKEIEAEATQVRCLPCGGTDYCYCKSKSHKAPPLPGEQFCGSRGTLPK 578
DB 993 -----EWFQGLNATEEV--WFFG-----EGHPNPEP-----KEQRLGVEG 1028
QY 579 RNAKGTPEGLALSARDGSSAAGGQPLPGEEDRSQDVQWMLSESRQSKSPHSAQSI 638
DB 1029 ASVKGGAEL-----ODEGGSQQVGTGLOAPQ-----LPEAIE-- 1064
QY 639 RKSYPLESARAAP-GBRVRHLLGAS-GHSRSVARAHP-----FTQDPAM 682
DB 1065 ----PLVEDDVAFGDQASPEVMLGSEPMANGESAAGAEPLGGQVGLGDPGHLTREEVM 1120
QY 683 -PPLTPNTLAQ-----LEACRRLEAVSK-PKORCCVVASQORDNHSAA--- 726
DB 1121 BPPLSEESLEAKRVQGLEGRKDLAEAGGLGTFSPLPKGRDPWPBPREGRESEAEAP 1180
QY 727 -GOAGASPPANPSLAPEDHKPKKLASVHA 755
DB 1181 RGAEAFPAETLIGHTSDAPSPWPLQSEEA 1210

RESULT 6
US-11-126-313-33
; Sequence 33, Application US/11126313
; Publication No. US20050288489A1
; GENERAL INFORMATION:
; APPLICANT: Hirsch, Joel
; TITLE OF INVENTION: VOLTAGE-DEPENDENT CALCIUM CHANNEL BETA SUBUNIT FUNCTIONAL CORE
; FILE REFERENCE: P-6758-US
; CURRENT APPLICATION NUMBER: US/11/126,313
; CURRENT FILING DATE: 2005-05-11
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 33
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-126-313-33

Query Match 3.4%; Score 149; DB 7; Length 2505;
Best Local Similarity 20.8%; Pred. No. 0.065;
Matches 103; Conservative 47; Mismatches 177; Indels 168; Gaps 23;
QY 274 FKRSDPVNVHVS-GYVAPATS-----ANDSEL--SSDALTTDDSKSM-----TDS 317
DB 1988 FORMEPPSTQEGGPGQNALPSTQLDPGGALMAHESGLKESPSWVTQRAQEMFQKTGWS 2047
QY 318 SVDGVPYRMGSKQLO-----REMHRS-----VKANGQ---VSLPHFP-----RTHRL 358
DB 2048 PROGPTDMPNSQSPNSQSVEMRENGRDGYSDSEHYLPMEGQGRAASMPRLPAENQRRGR 2107
QY 359 PK-----EMTPVEPAFAELIS-----RLEKLELESRHSLEERLQOIRDEBK 404
DB 2108 PRGNLSTISDTSPMKRSASVLGPKARRLDYSLERVPEENORH-----HQRRDRSH 2161
QY 405 ESEQALSRDGNAPVOHPLALLPSGSYEEDPQTLLDHLRSVLKTPGCOSPGVGRYSRPS 464
DB 2162 RASERSL-----GRY-TDVTGLGLTDLIS--MTTOSGDLPSKERDQERG 2201
QY 465 RSPDHHHHHHQOCHTLLSTGCKLPPVAACPLLGCKSFLTKQTKHVVHHYHHHVAVK 524
DB 2202 RPKDKRHHH-----HHHH-HHHPPPP 2224
QY 525 TKEEIEAEATQVRCLPCGGTDYCYCKSKSHKAPPLPGEQFCGSRGTLPKRNAKT 584
DB 2225 DXDRAQERPDGR-----ARARDQWRSRPSGREGHMAHQGS-----SS 2265
QY 585 EPLGALSARDGSSAAGGQPLP-----GEEGDRSQDVQWMLSE 625

DB 2266 VSGSPAPSTSGTSTPRGRRLPQTFTSTPRPHVSVPTIRKAGSGSPPO-----QOQOQOQ 2322
QY 626 ROSKSKP-HSAOSIRKSYPLESARAAPGERVSRHLLGASGHSRSVARAHPFTQDPAMPP 684
DB 2323 QAVARPGAAATSGPRYPGPTAEPLAGDRPP-----TGGHSSG-----RSPMR 2368
QY 685 LTPNTLAQLEBACR 699
DB 2369 RVGPARSESPRACR 2383

RESULT 7
US-11-096-568A-29371
; Sequence 29371, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29371
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(496)
; OTHER INFORMATION: Ceres Seq. ID no. 4814589
US-11-096-568A-29371

Query Match 3.3%; Score 148; DB 7; Length 496;
Best Local Similarity 20.7%; Pred. No. 0.0077;
Matches 98; Conservative 42; Mismatches 132; Indels 202; Gaps 23;
QY 310 DSMWT-----DSSVDGVPYRMGSKQLOREHRSVKANG-----QVSLPHFPPTH-- 356
DB 125 DELNITKVVGIDPDGTGYREILPLSLSIK-----EMFESVLINQSTLQTKSLFGTFLP 180
QY 357 --RLPKEMTPVEP-AAFAELISRLKLEKLESRHSLEERLQOIR-----EDEKEG 406
DB 181 EVLKPGGITVIPPQSAPP-----LOKFKIVE--NFTLNYSHIQIINFNTLASOLKNG 232
QY 407 SEQA-----LSSRDGAPVQ-----HPLALLPSGSYEEDPQ----- 436
DB 233 LNLAPYENLYVLSNSEGSTVSPPTTVHSSVLLRVGTSSNSPRLKQLTDTITGSRSKNLG 292
QY 437 -----TILDDHLRSVLKTPGCOSPGVGRYSRPSRSPDHHHHHHHHQOCHT 481
DB 293 LNTTIFGKVQVRLSSFLPNSSDSTKSPS-PSP-----SPHSKHHHHHHHHHHHHH- 345
QY 482 LLSTGCKLPPVAACPLLGCKSFLTKQTKHVVHHYHHHVAVKPKEIE-----AEATQVR 538
DB 346 -----HHNHHHHHHNLSPKMAEVPVSPASPAHRSR 377
QY 539 CLCPGTDYCYCKSKSHKAPPLPGEQFC-----GSRGGTLPKRNAKTGTPGLALSARDG 596
DB 378 -----KRAPSAPP-----CNPGRNVHFKEKRVQSPSTPAPAPSA----- 412
QY 597 MSSAAGPOLPGEEDRSQDVQWMLSESRQSKSPHSAQIRKSYPLESARAAPGERVS 656
DB 413 -----GAPH--HOLHSPAPISAASK----- 430
QY 657 RHLLGASGHSRSVARAHPFTQDPAMPLTPNTLAQLEACRRRLAEVSKPQKQ 710
DB 431 ---HIVPISAPLPHVFAH-----AAQPPITEPRE-----PHANEVAHPQPO 469

RESULT 8
US-11-096-568A-29370
; Sequence 29370, Application US/11096568A

```
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29370
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(548)
; OTHER INFORMATION: Ceres Seq. ID no. 4814588
US-11-096-568A-29370

Query Match      3.3%; Score 148; DB 7; Length 548;
Best Local Similarity 20.7%; Pred. No. 0.0088;
Matches 98; Conservative 42; Mismatches 132; Indels 202; Gaps 23;

QY 310 DMSMT-----DSSVDGVPYRMGSKKQLQREHRSVKANG---QVSLPHFPRTH-- 356
DB 177 DELNITKVVGIDPDGTGYREILPLSLSSIK-----EMFESVLINQSTLQTLKSLFGETFLF 232
QY 357 ---RLPKEMTPVEP--AFAAEALISRLKLELESRHSLEERLQOIR-----EDEKEG 406
DB 233 EVLKPEGGITVPPQSAPP-----LQFKIVF--NFTLNVSIHQIINFNTLASQLKNG 284
QY 407 SEQA-----LSSRDGAPVQ-----HPLALLPGSYEEDPQ----- 436
DB 285 LNLAPYENLYVLSNSEGSTVSPPTTVHSSVLLRVGTSSNPRLKQLTDTITGSRSKNLG 344
QY 437 -----TILDDHLRSVLKTPGCQSPGVGRYSPRSRSPDHHHHOHHHQQOCHT 481
DB 345 LNTTIFGKVKQVRLSSFLPNSDSSTKSPS--PSP-----SPHSKHHHHHHHHHHHHH- 397
QY 482 LLSTGGKLPVAAACPLLGKGFSLTKQTTKVHHHHYIHHHVPKTKKEIE---AEATORVR 538
DB 398 -----HHNHHHHHHHNLSPKMAPEVSPVAPAPHSR 429
QY 539 CLCPGDTYYCYKCKSHKPAPELPGEQFC--GSRGGTLPKRNAGKTEPGLALSARDGG 596
DB 430 -----KRAPSAPP-----CNPGNRVHFKEKRVQFSSTPAPAPSA--- 464
QY 597 MSSAAGGQPLPGEEDRSQDVQWMLSEEROSKSPKSAQSIKSYPLESARAAPGERVS 656
DB 465 -----GAPH--HQLHSPAPISAAS----- 482
QY 657 RHHLGASGHSVARAHPTQDPAMPPLTPPNTLAQLEACRRLAEVSKPKQK 710
DB 483 --HIVPISAPLPHVVFAH-----AAQPPITEPRE-----PHANEVAHPQK 521

RESULT 9
US-11-096-568A-29369
; Sequence 29369, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29369
; LENGTH: 684
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
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```
; NAME/KEY: misc_feature
; LOCATION: (1)..(684)
; OTHER INFORMATION: Ceres Seq. ID no. 4814587
US-11-096-568A-29369

Query Match      3.3%; Score 148; DB 7; Length 684;
Best Local Similarity 20.7%; Pred. No. 0.012;
Matches 98; Conservative 42; Mismatches 132; Indels 202; Gaps 23;

QY 310 DMSMT-----DSSVDGVPYRMGSKKQLQREHRSVKANG---QVSLPHFPRTH-- 356
DB 313 DELNITKVVGIDPDGTGYREILPLSLSSIK-----EMFESVLINQSTLQTLKSLFGETFLF 368
QY 357 ---RLPKEMTPVEP--AFAAEALISRLKLELESRHSLEERLQOIR-----EDEKEG 406
DB 369 EVLKPEGGITVPPQSAPP-----LQFKIVF--NFTLNVSIHQIINFNTLASQLKNG 420
QY 407 SEQA-----LSSRDGAPVQ-----HPLALLPGSYEEDPQ----- 436
DB 421 LNLAPYENLYVLSNSEGSTVSPPTTVHSSVLLRVGTSSNPRLKQLTDTITGSRSKNLG 480
QY 437 -----TILDDHLRSVLKTPGCQSPGVGRYSPRSRSPDHHHHOHHHQQOCHT 481
DB 481 LNTTIFGKVKQVRLSSFLPNSDSSTKSPS--PSP-----SPHSKHHHHHHHHHHHHH- 533
QY 482 LLSTGGKLPVAAACPLLGKGFSLTKQTTKVHHHHYIHHHVPKTKKEIE---AEATORVR 538
DB 534 -----HHNHHHHHHHNLSPKMAPEVSPVAPAPHSR 565
QY 539 CLCPGDTYYCYKCKSHKPAPELPGEQFC--GSRGGTLPKRNAGKTEPGLALSARDGG 596
DB 566 -----KRAPSAPP-----CNPGNRVHFKEKRVQFSSTPAPAPSA--- 600
QY 597 MSSAAGGQPLPGEEDRSQDVQWMLSEEROSKSPKSAQSIKSYPLESARAAPGERVS 656
DB 601 -----GAPH--HQLHSPAPISAAS----- 618
QY 657 RHHLGASGHSVARAHPTQDPAMPPLTPPNTLAQLEACRRLAEVSKPKQK 710
DB 619 --HIVPISAPLPHVVFAH-----AAQPPITEPRE-----PHANEVAHPQK 657

RESULT 10
US-10-821-234-1039
; Sequence 1039, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Presclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt SEQ_genes Version 1.0
; SEQ ID NO 1039
; LENGTH: 578
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1039

Query Match      3.3%; Score 147.5; DB 6; Length 578;
Best Local Similarity 21.5%; Pred. No. 0.01;
Matches 104; Conservative 64; Mismatches 178; Indels 137; Gaps 24;

QY 214 GLGLKVLKLCGYLPTLN-----EEEWTCADLKCKLS-----PTVGLSSKTL-----RATA 259
DB 115 GKSPRLLCIEKVTYTDKPKKEEEDDSALPOEVSIANAASRSPSRGWSRSTSVSHRDE 174
```



```
Db 1377 AGSVDSQGAQBPXK-----ACDT-----C-----GRNFKFLGTL--R 1409
Qy 514 HHYIHHAVPKTK-----EIEAATQVRCLCPGGTDYYCYGKCKSHKAPPLPCEQPC 569
Db 1410 HKKAHQSCQPEKEEAAPSLNENGVRA-----VEGSPSPPEPEKEPAESLA 1456
Qy 570 -----GSRGGTLPKNAKTEP-----GLALSARDGMSAAGGPOLPBEGRDSDQVWQ- 619
Db 1457 IDPTGTREASVAKNEETEGTDEGTAERKGDGDKRPKTDSPKSMASKADKKKVCV 1516
Qy 620 -----WMLES-ERQSKS-----KPHSAQSIKSYPLESA-----RAAPGERVSRHLLGAS 664
Db 1517 CNKRWSQDLTRHNRSHGTERPYKQCERTFTLLKHSLVHRHQHQAHSKH-----G 1572
Qy 665 GHSRSVARAHPPTQDPAMPPLTPPNTLAQLEACRRLAEVSKPQKQRCVSAQQRDRNHS 724
Db 1573 KDSKDERAEDESEDETHSATNPASENEASA-----PSTSNHVAVTRSRKESLS 1623
Qy 725 AAG-----QAGASPFANPSLAPED-----HKEPKKLASV 753
Db 1624 TSGKCSPEERAAQAAPES-APKEODGETDQSPAAI 1661

RESULT 13
US-10-469-469-54
; Sequence 54, Application US/10469469
; Publication No. US20060079493A1
; GENERAL INFORMATION:
; APPLICANT: FRITZ, LAWRENCE C.
; TITLE OF INVENTION: METHODS FOR TREATING GENETICALLY-DEFINED PROLIFERATIVE
; FILE OF INVENTION: DISORDERS WITH HSP90 INHIBITORS
; FILE REFERENCE: CON-0010-USN
; CURRENT APPLICATION NUMBER: US/10/469,469
; CURRENT FILING DATE: 2003-08-27
; PRIOR APPLICATION NUMBER: PCT/US02/06518
; PRIOR FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: 60/272,751
; PRIOR FILING DATE: 2001-03-01
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 54
; LENGTH: 2311
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-469-469-54

Query Match 3.1%; Score 138; DB 6; Length 2311;
Best Local Similarity 18.6%; Pred. No. 0.36;
Matches 187; Conservative 103; Mismatches 324; Indels 390; Gaps 44;

Qy 11 PDPSFFREDAPRPV-----PGERGE---TPPCOPSVGKQVS---TKMPVVS 52
Db 1293 PAPKSSSEPPRPKVEKSEGNVSAPGPKSQATTAPSKSSQVSPALVIPPQPT 1352
Qy 53 SNARNE---DGLGEGRASPSPLTRWTKSLHSLLDGQDQAYLFTFLERKCVDTLD 109
Db 1353 TGPPRKEVPKTPSEPK-KQPPPPESGPEQSKQKVAPRPSIPVKQPKKEKPPPV-- 1409
Qy 110 FWFACNGFRQNLKDTLRLVAKAIKYRIENSVVSKQKPAKTYIRDIGIKQQIGSV 169
Db 1410 -----NKQENAGTLNIFSTL-----SNGNSKQKIPA-----DGVR-----I 1442
Qy 170 MFDQAQTEIQVMEENAVOVFLTSDIYLEYVVRSGENTAYMNSGGLSLKVLGVLPTLN 229
Db 1443 RVDFKQT-----YSNEVHCVEILKEMTHS-----WPPPL- 1472
Qy 230 EEEWTCADKCKLSPTVVLGSSKTLRATASVRETAEANGFRSFKRSDPVNPHYVGS-- 287
Db 1473 -----GYFPAPATSANDELSALTDSDMSMTDSVGVPPYRMGSKQLQREHRSVKA 343
Qy 288 -----GYFPAPATSANDELSALTDSDMSMTDSVGVPPYRMGSKQLQREHRSVKA 343

Db 1501 QNKQYDTSSKTHSNSQOQTSSMLEDD-LQLSDSEDS----- 1536
Qy 344 NQCVSLPHFPTRHLPKEMTPVEPAFAAEALISRLKLEKLELESRHSLEERLQOIREDEE 403
Db 1537 -----DSEQTPEKPPSSAP-PSAQSLPEPVASAHSSAESTSDSDS 1580
Qy 404 KEGSQALSSRD---GAPVQHPLALLPGSYEEDPQTI---LDHLSRV-----LKTTP 450
Db 1581 SSDSESSSSSENEPLETP-----APEPEPTTNKQDLNWLTKVSSQLRHQAP 1633
Qy 451 GQSPGVGRYS-----PSRS-----PDHH-----QHHHHQ 478
Db 1634 GAQSPHGQTVRAAATVPRVRSILNPKILPKAPAKPPPEAPHPGKRSCOKSPAQOE 1693
Qy 479 CHTLLSTGKLP--PVAACPILLGGKSL-----TKQTTKHVVHHYIHHAVP 523
Db 1694 PQRQTVGKQPKPKVAKASARAGSRTSLOGEREGLLPYGSRDQTSK-----DKPKV 1745
Qy 524 KYKEIEAATQVRCLCPGGTDYYCY-----SKKSHP-----KAPE-----P 562
Db 1746 KTKGRPRAAAGNEPKPAVPPSPSEKKHKSLLPAPSKALSGPEPAKDNVEDRTEHFALVP 1805
Qy 563 L---PGEQFCGSRGCT-----LPKRNK-----GTEPLALSAR- 593
Db 1806 LTESQPPHSGSSSRTSGCROAVVQVQDSRKDRPLPLRDTKLLSPLRDTPPQSLMVKI 1865
Qy 594 -----DGMSSAAGGPOLPG-----BEGDRSDQVWQ 620
Db 1866 TLDLLSLRIPQPPKGSQRQKAEQKPPAGKHSSEKSSDSSSLAKKRGAEARCDNK 1925
Qy 621 MLESROQSKPHSAQSIKSYPLESAR---AAPGERVSRHLLGASGHSRSVARAHPPT 677
Db 1926 KIRLEKTSQSSSSSSSHK---ESSKTKPSRPSQSSQSKKMLPPPPVSSS-----S 1974
Qy 678 QDPAMPPL-----TPPNTLAQLEACRRLAEVSKPQKQRCVSAQQRDRNHS 725
Db 1975 QKPAKPAKRSRREADTCQDPPPKSASTKGNHK---DSSIPKQRRVEGKGRSSSEHGK 2031
Qy 726 AQAGASPFANPSLAPEDHKP-----KKLASVH-----ALQ 757
Db 2032 SSGDTANFPVPVSL-PNGNSKPGKPVQKFDQADLHMREEKMKQKAEMLTDVRVGKAPK 2090
Qy 758 ASELVVTYFFCGEIPYRMLKAQSLTLGHFKQSLKGNRYRY 801
Db 2091 YLEAVLSPIECG-----IATESQSQSKSAYSVY 2119

RESULT 14
US-10-821-234-888
; Sequence 888, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Presclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt SEQ_genes Version 1.0
; SEQ ID NO 888
; LENGTH: 748
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-888

Query Match 3.1%; Score 137; DB 6; Length 748;
Best Local Similarity 35.4%; Pred. No. 0.085;
Matches 40; Conservative 16; Mismatches 47; Indels 10; Gaps 5;
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664 NHTNDWGYHVPEDPWVHAR-----FLKEGMFPFCVAHPSTHSSRVD-----LANDSS 712
707 POKORCCVASQORDRNHSAAQAGASPFPANPSLAPEDHKPKKLA-----SVHALQASE 760
713 GARRRSTWTSTSSAGH---GVEGMPSEAGSVSEHDVNPDEAVIYMSIQLYSIDRDF 769
761 LVVTTYFCCBEIPIYRMLKAQSLTLGHFKQLSKKNYR---YFFKASDEFACGAVFEE 817
770 FVVDPKCAG-----YERLV---TNLVREIKASIPLSGSHQPPPH-----QD 808

818 IWDDDE 822
809 GWDDE 813

Search completed: April 20, 2006, 16:07:52
Job time : 50.5435 secs

725 AAGAGASFPANPS--LAPEDHKPKKLAASVHALQASELVVTTYFCCGEIIPY--RRMLKA 780
1 AAGPRAPP---PSGRGPAARAGARARAPEARAMCETKIIYHLDGQETPYLVKPLPA 57
781 QSLTLGHFKBQLSKKNYRYFFKASDEFACGAVFEEIWDETVLPMYEGRI 833
58 ERVTLADFQVL-QRPSYKFFKSMDDDF--GVVKEBISDNNAKLPCFNGRVV 107

RESULT 15
US-11-087-099-950
; Sequence 950, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 950
; LENGTH: 880
; TYPE: PRT
; ORGANISM: Cochliobolus carbonum
US-11-087-099-950

Query Match 3.1%; Score 136.5; DB 7; Length 880;
Best Local Similarity 18.7%; Pred. No. 0.12;
Matches 147; Conservative 96; Mismatches 295; Indels 247; Gaps 36;

QY 138 YIENNSWSKOLKPKATKYIRD-GIKKQIG--SVMFDOAQTEIOAVMBENAYQVFLTSD 194
DB 176 YCHRHKIVHRDLKPNLLDHDNSVKIADGFLSNIMTDGNFLKTS CGSPNYAAPEVISGK 235
QY 195 IYLEYVRSGENTAYMSNGL-----GSLKVLCCGYLPTLNEEEETWCADLKCLSPVTV 248
DB 236 LY-----AGPEVDVMSCGVILYVLLVGRLPDFDEYIPTLFKKIAAGQYSTPSYLSFGAT 289
QY 249 GLSSKTLRATASVRSVTAENGFRSKRSDPNPNPHVGVGVFPAPATSA NDSLSSDALT 308
DB 290 SLIRKMLM-----VNPVH-----RITIPELR 310
QY 309 DDSMSMTDSSVDGVPPYRMGSKQLOREHRSVKANGQVSLPHFPRTHRLPKEMTEVEPA 368
DB 311 QDPWFITDLPAYLEPP-----AQEFFDSGADPNKAID-----PKALAPLADA 352
QY 369 ----AFAAELISRLKLELSRHSLEERLQO-----IREDEKEGSEQALS 412
DB 353 PRVQALHENVVTKLGTM--GYAKHDVQDALARDEFSAIKDAYLIVRENEMMR-ENPLLT 409
QY 413 SRDGAPOHPHALLPSGVEED--POTILDHLSRVLKTPGCOSPGVGRYSPRSRSPDHH 470
DB 410 NQDGVVFNHQSPPAHDSTMEKFRPOS--NAVSRPOFIPPAFS-----DHE 454
QY 471 HQHHHQCHLLSTGGKLPVVAACPLLGKSFLLTKQTTKHVHHYIHH-----520
DB 455 RARQGSNASSQLASIRSPVSTIAILP-----SSLTE-----YHKAYMKGHPRPTNKISES 504
QY 521 -AVPKTKEIEABATQVRCLCGGTDYCYCKSHPKA-----PEPLPGFCGSRGGT 575
DB 505 EALPPTPEQTEQROISARRLK-----NFRTPAAGRTKPEFMT-----S 545
QY 576 LPKRNAKGT-----EPGLALSARDGMSAAGGPOLP-----GEEGDRSQDVWQ 619
DB 546 LPTKKPRATKQFGIRSNQPAEAMLAIFKALAMGADMEVPKIRRAGRSRGRSTSQ 605
QY 620 WMLESERQSKSPHSAQSI-----RKSYPLE-----SARAAFGERSVRH 658
DB 606 --APEDRKSKRNHSQDSISSHSDDEOGSKSPREPLSVRNNGTSEQEARGRQKKHY 663
QY 659 HLLGASG-----HGRSVARAHPFTQDPAMP--LTPPNTLAQLEACRRLAESVK 706

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 20, 2006, 15:30:33 ; Search time 10.277 Seconds
(without alignments)
989.497 Million cell updates/sec

Title: US-09-587-574-2
Perfect score: 639
Sequence: 1 WTKSLHSLGDDGAYLFRFT.....VNEENAYQVFLTSDIYLEYV 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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1: /cgn2_6/ptodata/1/1aa/5 COMB.pap.*
2: /cgn2_6/ptodata/1/1aa/6 COMB.pap.*
3: /cgn2_6/ptodata/1/1aa/H COMB.pap.*
4: /cgn2_6/ptodata/1/1aa/PCRTUS COMB.pap.*
5: /cgn2_6/ptodata/1/1aa/RE COMB.pap.*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	407	63.7	127	2	US-08-890-865A-19
2	407	63.7	992	2	US-08-890-865A-1
3	406	63.5	855	2	US-08-890-865A-10
4	401	62.8	900	2	US-08-890-865A-4
5	186.5	29.2	235	2	US-09-244-314-2
6	186.5	29.2	235	2	US-09-498-959-2
7	186.5	29.2	235	2	US-09-894-749-2
8	177.5	27.8	235	2	US-09-244-314-4
9	177.5	27.8	235	2	US-09-498-959-4
10	177.5	27.8	235	2	US-09-894-749-4
11	172.5	27.0	519	2	US-10-113-794A-2
12	172.5	27.0	520	2	US-09-949-016-9918
13	169.5	26.5	120	2	US-08-890-865A-13
14	167.5	26.2	120	2	US-08-890-865A-11
15	167.5	26.2	211	1	US-08-748-483-4
16	167.5	26.2	211	2	US-09-949-016-6288
17	167.5	26.2	221	2	US-09-949-016-10608
18	167.5	26.2	230	2	US-10-113-794A-1
19	165	25.8	119	1	US-08-588-258B-31
20	165	25.8	119	2	US-08-460-505-31
21	165	25.8	119	4	PCT-US96-08295-31
22	165	25.8	196	1	US-08-829-110-5
23	165	25.8	196	1	US-08-748-483-3
24	165	25.8	196	2	US-09-702-705-339
25	165	25.8	196	2	US-09-736-457-339
26	165	25.8	196	2	US-09-614-124B-339
27	165	25.8	196	2	US-09-671-325-339

28	165	25.8	196	2	US-09-589-184-339	Sequence 339, App
29	165	25.8	196	2	US-09-658-824-339	Sequence 339, App
30	165	25.8	196	2	US-10-017-754-339	Sequence 339, App
31	165	25.8	196	2	US-09-651-563-339	Sequence 339, App
32	165	25.8	196	2	US-09-519-642-339	Sequence 339, App
33	165	25.8	200	2	US-09-949-016-10607	Sequence 10607, A
34	160	25.0	119	2	US-08-890-865A-18	Sequence 18, Appl
35	160	25.0	181	2	US-09-949-016-10741	Sequence 10741, A
36	160	25.0	243	1	US-08-829-110-3	Sequence 3, Appl
37	158	24.7	119	2	US-08-890-865A-15	Sequence 15, Appl
38	158	24.7	121	1	US-08-588-258B-32	Sequence 32, Appl
39	158	24.7	121	2	US-08-460-505-32	Sequence 32, Appl
40	158	24.7	121	4	PCT-US96-08295-32	Sequence 32, Appl
41	155.5	24.3	205	1	US-08-829-110-6	Sequence 6, Appl
42	155.5	24.3	205	1	US-08-748-483-5	Sequence 5, Appl
43	155.5	24.3	232	2	US-09-949-016-11200	Sequence 11200, A
44	154.5	24.2	181	1	US-08-748-483-1	Sequence 1, Appl
45	154.5	24.2	181	2	US-09-709-103-25	Sequence 25, Appl

ALIGNMENTS

RESULT 1
US-08-890-865A-19
; Sequence 19, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-19

Query Match 63.7%; Score 407; DB 2; Length 127;

Best Local Similarity 61.9%; Pred. No. 3e+43;
Matches 78; Conservative 21; Mismatches 23; Indels 4; Gaps 2;

QY	1	WTKSLHSLGDDGAYLFRFTFLERKCVNTLDFWACNGFRONLKTOT---KTLRVAKAI	57
DB	2	WAESLHSLLDGDDGSLFRFTFLKQEGCADLLDFWACSGFRKLEPCDSNEERKLARAI	61
QY	58	YKRYI-ENNSVSVSKQLPKATYIRDIGIKKQIGSVMPDQAQTETQAVMEENAYQVFLTS	116

Db 62 YRKVILDSNGIVSRQTKPATKSFIKDCVMKQIDPAMFDQAQTEIQSTMEENTYPSFLKS 121

Qy 117 DIYLEY 122
Db 122 DIYLEY 127

RESULT 2

US-08-890-865A-1
; Sequence 1, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 992 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-1

Query Match 63.7%; Score 407; DB 2; Length 992;
Best Local Similarity 61.9%; Pred. No. 4.7e-42;
Matches 78; Conservative 21; Mismatches 23; Indels 4; Gaps 2;

Qy 1 WTKSLHSLLDQDQGVLYLFRFTFLERKCVDTLDFWACNGFRQWNLKDT---KTLRVAKAI 57
Db 214 WAESLSHLLDDQDQGVLSLFRFTFLKQECADLLDFWACSGFRKLEPCVSNEEKRLKAKAI 273
Qy 58 YKRYI-ENNSVSVSKOLKPKATKYIRDGKIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 274 YRKVILDSNGIVSRQTKPATKSFIKDCVMKQIDPAMFDQAQTEIQSTMEENTYPSFLKS 333
Qy 117 DIYLEY 122
Db 334 DIYLEY 339

RESULT 3

US-08-890-865A-10
; Sequence 10, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li

; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 855 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-10

Query Match 63.5%; Score 406; DB 2; Length 855;
Best Local Similarity 61.1%; Pred. No. 5.2e-42;
Matches 77; Conservative 22; Mismatches 23; Indels 4; Gaps 2;

Qy 1 WTKSLHSLLDQDQGVLYLFRFTFLERKCVDTLDFWACNGFRQWNLKDT---LKDTKTLRVAKAI 57
Db 99 WAESLSHLLDDQDQGVINLFRFTFLKQECADLLDFWACSGFRKLEPCVSNEEKRLKAKAI 158
Qy 58 YKRYI-ENNSVSVSKOLKPKATKYIRDGKIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 159 YKRYILDSNGIVSRQTKPATKSFIKDCVMKQIDPAMFDQAQTEIOCMIEDNTYPLFLKS 218
Qy 117 DIYLEY 122
Db 219 DIYLEY 224

RESULT 4

US-08-890-865A-4
; Sequence 4, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/890,865A
FILING DATE: 10-JUL-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 0575/54249
TELEPHONE: (212)278-0400
TELEFAX: (212)391-0526
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-08-890-865A-4

Query Match 62.8%; Score 401; DB 2; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.4e-41;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;
QY 1 WTKSLHSLLDGODGAYLFRFTFLEREKCVDTLDFWACNGFRQMNLLKDT---KTLRVAKAI 57
DB 122 WAESLHSLLDGODGSLRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181
QY 58 KYRYI-ENNSVSVSKQLKPKATKYIRDGIIKKQOIGSVMFDOAQTEIQAVMEENAYQVFLTS 116
DB 182 YKYLDDNNGIVSRQTKPATKSFYKGCIMKQLIDPAMFDOAQTEIQAVMEENAYQVFLTS 241
QY 117 DIYLEY 122
DB 242 DIYLEY 247

RESULT 5
US-09-244-314-2
Sequence 2, Application US/09244314
Patent No. 6274362
GENERAL INFORMATION:
APPLICANT: Hodge, Martin R.
APPLICANT: Yowe, David
TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
FILE REFERENCE: 5800-19, 035800/174680
CURRENT APPLICATION NUMBER: US/09/244,314
CURRENT FILING DATE: 1999-02-04
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 235
TYPE: PRT
ORGANISM: Homo sapiens
US-09-244-314-2

Query Match 29.2%; Score 186.5; DB 2; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.6e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;
QY 1 WTKSLHSLLDGODGAYLFRFTFLEREKCVDTLDFWACNGFR-----QMNLLKDTKTLRVA 54
DB 83 WGESFDKLLSHRDGLAEAFTRFLKTFSEENIEFWIACEDFKKSGPQQIHLK-----A 135
QY 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIIKKQOIGSVMFDOAQTEIQAVMEENAYQVFL 114
DB 136 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIIKKQOIGSVMFDOAQTEIQAVMEENAYQVFL 193
QY 115 TSDIYLE 121
DB 194 KSDIYLD 200

RESULT 6

US-09-498-959-2
Sequence 2, Application US/09498959
Patent No. 6410240
GENERAL INFORMATION:
APPLICANT: Hodge, Martin R.
APPLICANT: Yowe, David
TITLE OF INVENTION: RGS-Containing Molecules and Uses
TITLE OF INVENTION: Thereof
FILE REFERENCE: 5800-19A
CURRENT APPLICATION NUMBER: US/09/498,959
CURRENT FILING DATE: 2000-02-04
EARLIER APPLICATION NUMBER: 09/244,314
EARLIER FILING DATE: 1999-02-04
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 235
TYPE: PRT
ORGANISM: Homo sapiens
US-09-498-959-2

Query Match 29.2%; Score 186.5; DB 2; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.6e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;
QY 1 WTKSLHSLLDGODGAYLFRFTFLEREKCVDTLDFWACNGFR-----QMNLLKDTKTLRVA 54
DB 83 WGESFDKLLSHRDGLAEAFTRFLKTFSEENIEFWIACEDFKKSGPQQIHLK-----A 135
QY 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIIKKQOIGSVMFDOAQTEIQAVMEENAYQVFL 114
DB 136 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIIKKQOIGSVMFDOAQTEIQAVMEENAYQVFL 193
QY 115 TSDIYLE 121
DB 194 KSDIYLD 200

RESULT 7
US-09-894-749-2
Sequence 2, Application US/09894749
Patent No. 6830914
GENERAL INFORMATION:
APPLICANT: Hodge, Martin R.
APPLICANT: Yowe, David
TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
FILE REFERENCE: 5800-19, 035800/174680
CURRENT APPLICATION NUMBER: US/09/894,749
CURRENT FILING DATE: 2001-06-27
PRIOR APPLICATION NUMBER: 09/244,314
PRIOR FILING DATE: 1999-02-04
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 235
TYPE: PRT
ORGANISM: Homo sapiens
US-09-894-749-2

Query Match 29.2%; Score 186.5; DB 2; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.6e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;
QY 1 WTKSLHSLLDGODGAYLFRFTFLEREKCVDTLDFWACNGFR-----QMNLLKDTKTLRVA 54
DB 83 WGESFDKLLSHRDGLAEAFTRFLKTFSEENIEFWIACEDFKKSGPQQIHLK-----A 135
QY 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIIKKQOIGSVMFDOAQTEIQAVMEENAYQVFL 114
DB 136 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIIKKQOIGSVMFDOAQTEIQAVMEENAYQVFL 193
QY 115 TSDIYLE 121
DB 194 KSDIYLD 200

Db 194 KSDIYLD 200

RESULT 8
US-09-244-314-4
; Sequence 4, Application US/09244314
; Patent No. 6274362
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/244,314
; CURRENT FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-244-314-4

Query Match 27.8%; Score 177.5; DB 2; Length 235;
Best Local Similarity 31.7%; Pred. No. 4.9e-14;
Matches 39; Conservative 28; Mismatches 53; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDGAYLFTFLERKCVDTLDFWACNGFROMNLKDTKTLRVAKAIYKR 60
Db 83 WAESFDKLLSHRDGVDAFTFLKTEFSEENIEFWACEDFKCK-EPQOIIILKAKAIYK 141
Qy 61 YIENNSVSVSKLPATKTYIRDGIKKQOIGSVMFQAOATEIOAVMEENAYQVFLTSDIYL 120
Db 142 FIQNDAPKEVNDIHTKEVIAKSIAPTLHS--FDTAQRVYQLMEHDSYKRFKSETYL 199
Qy 121 EYV 123
Db 200 HLI 202

RESULT 9
US-09-498-959-4
; Sequence 4, Application US/09498959
; Patent No. 6410240
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses
; FILE REFERENCE: 5800-19A
; CURRENT APPLICATION NUMBER: US/09/498,959
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: 09/244,314
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-498-959-4

Query Match 27.8%; Score 177.5; DB 2; Length 235;
Best Local Similarity 31.7%; Pred. No. 4.9e-14;
Matches 39; Conservative 28; Mismatches 53; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDGAYLFTFLERKCVDTLDFWACNGFROMNLKDTKTLRVAKAIYKR 60
Db 83 WAESFDKLLSHRDGVDAFTFLKTEFSEENIEFWACEDFKCK-EPQOIIILKAKAIYK 141
Qy 61 YIENNSVSVSKLPATKTYIRDGIKKQOIGSVMFQAOATEIOAVMEENAYQVFLTSDIYL 120
Db 142 FIQNDAPKEVNDIHTKEVIAKSIAPTLHS--FDTAQRVYQLMEHDSYKRFKSETYL 199
Qy 121 EYV 123
Db 200 HLI 202

RESULT 10
US-09-894-749-4
; Sequence 4, Application US/09894749
; Patent No. 6830914
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/894,749
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: 09/244,314
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-894-749-4

Query Match 27.8%; Score 177.5; DB 2; Length 235;
Best Local Similarity 31.7%; Pred. No. 4.9e-14;
Matches 39; Conservative 28; Mismatches 53; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDGAYLFTFLERKCVDTLDFWACNGFROMNLKDTKTLRVAKAIYKR 60
Db 83 WAESFDKLLSHRDGVDAFTFLKTEFSEENIEFWACEDFKCK-EPQOIIILKAKAIYK 141
Qy 61 YIENNSVSVSKLPATKTYIRDGIKKQOIGSVMFQAOATEIOAVMEENAYQVFLTSDIYL 120
Db 142 FIQNDAPKEVNDIHTKEVIAKSIAPTLHS--FDTAQRVYQLMEHDSYKRFKSETYL 199
Qy 121 EYV 123
Db 200 HLI 202

RESULT 11
US-10-113-794A-2
; Sequence 2, Application US/10113794A
; Patent No. 6919313
; GENERAL INFORMATION:
; APPLICANT: Flanagan et al.
; TITLE OF INVENTION: B EPHRIN REGULATION OF G-PROTEIN COUPLED
; FILE REFERENCE: 2535/106
; CURRENT APPLICATION NUMBER: US/10/113,794A
; CURRENT FILING DATE: 2002-04-01
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 519
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-113-794A-2

Query Match 27.0%; Score 172.5; DB 2; Length 519;
Best Local Similarity 32.5%; Pred. No. 6e-13;
Matches 40; Conservative 24; Mismatches 56; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDGAYLFTFLERKCVDTLDFWACNGFROMNLKDTKTLRVAKAIYKR 60
Db 391 WGESLEKLVHVKYGVAVFOAFLRTEFSEENIEFWACEDFKCKV-SQSMAKAKAF 449
Qy 61 YIENNSVSVSKLPATKTYIRDGIKKQOIGSVMFQAOATEIOAVMEENAYQVFLTSDIYL 120
Db 450 YIAIQACEVNDISYTRHTKDNL--QSVTRCCFDLAKRIFGLMEKDSYPRFLRSDLYL 507

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QY 121 EYV 123
DB 508 DLI 510

RESULT 12
US-09-949-016-9918
; Sequence 9918, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9918
; LENGTH: 520
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9918

Query Match 27.0%; Score 172.5; DB 2; Length 520;
Best Local Similarity 32.5%; Pred. No. 6e-13;
Matches 40; Conservative 24; Mismatches 56; Indels 3; Gaps 2;

QY 1 WTKSLHSLGDQDGAYLFRTPFLERKCVDTLDFWACNGFROMNKLKDTLRLVAKAIYKR 60
DB 392 WGESLEKLLVHKYGLAVFQFLRTEFSEENLEFWLACEDFKVK-SQSKMASKAKKIFAE 450
QY 61 YIENNSVSKQLKPKATKYIRDIKKQIGSVMFQAOQTEIOAVMEENAYQVFLTSDIYL 120
DB 451 YIAIOACKEVNLDSTYREHTKDNL--QSVTRCFDLAKRIFGLMEKDSYPRFLRSDLYL 508
QY 121 EYV 123
DB 509 DLI 511

RESULT 13
US-08-890-865A-13
; Sequence 13, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-11

QY 1 WTKSLHSLGDQDGAYLFRTPFLERKCVDTLDFWACNGFROMNKLKDTLRLVAKAIYKR 60
DB 392 WGESLEKLLVHKYGLAVFQFLRTEFSEENLEFWLACEDFKVK-SQSKMASKAKKIFAE 450
QY 61 YIENNSVSKQLKPKATKYIRDIKKQIGSVMFQAOQTEIOAVMEENAYQVFLTSDIYL 120
DB 451 YIAIOACKEVNLDSTYREHTKDNL--QSVTRCFDLAKRIFGLMEKDSYPRFLRSDLYL 508
QY 121 EYV 123
DB 509 DLI 511

RESULT 14
US-08-890-865A-11
; Sequence 11, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-11

; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-13

Query Match 26.5%; Score 169.5; DB 2; Length 120;
Best Local Similarity 33.1%; Pred. No. 2e-13;
Matches 40; Conservative 23; Mismatches 55; Indels 3; Gaps 2;

QY 1 WTKSLHSLGDQDGAYLFRTPFLERKCVDTLDFWACNGFROMNKLKDTLRLVAKAIYKR 60
DB 2 WGESLEKLLVHKYGLAVFQFLRTEFSEENLEFWLACEDFKVK-SQSKMASKAKKIFAE 60
QY 61 YIENNSVSKQLKPKATKYIRDIKKQIGSVMFQAOQTEIOAVMEENAYQVFLTSDIYL 120
DB 61 YIAIOACKEVNLDSTYREHTKDNL--QSVTRCFDLAKRIFGLMEKDSYPRFLRSDLYL 118
QY 121 E 121
DB 119 D 119
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Job time : 11.277 secs

RESULT 15

Query Match	26.2%	Score 167.5	DB 1	Length 211
Best Local Similarity	32.8%	Pred. No. 7.6e-13		
Matches	39	Conservative	20	Mismatches 57
				Indels 3
				Gaps 2
QY	1	WTKSLHSLGDQGAYLFRFTLEBREKCVDTLDFWACNGFRQMLKDTKTLRVAKAIYKR	60	
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	:::	:::	:::	:::
Db	80	WSEAFDELLASKYGLAAFRAPLSEFCENIEFWLACEDFKKTK-SPOQLSSKARKIYTD	138	
QY	61	YIENSVSVKQLRPATKYTYIRDGIKKQIGSVMPDQAOETLQAVMEENAAQVFLTSIY	119	
	:::	:::	:::	:::
	:::	:::	:::	:::
Db	139	FISKEAPKETINDFOTKTLIAONI--QEAATSGGCTTAAKRVYSLMNNNSYPRLESEFY	195	

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 20, 2006, 15:57:53 ; Search time 42.7309 Seconds
(without alignments)
1202.714 Million cell updates/sec

Title: US-09-587-574-2

Perfect score: 639
Sequence: 1 WTKSLHSLGGDGGAYLFRFT.....VNEENAYQVFLTSDIYLEYV 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA_Main:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	624	97.7	843	5	US-10-723-860-1797
2	624	97.7	843	5	US-10-751-736-116
3	420	65.7	842	3	US-09-798-831-8
4	401	62.8	461	4	US-10-786-720-34
5	401	62.8	826	4	US-10-786-720-36
6	401	62.8	862	4	US-10-786-720-35
7	401	62.8	900	4	US-10-374-979-91
8	401	62.8	900	4	US-10-182-936A-91
9	401	62.8	900	5	US-10-477-236A-670
10	401	62.8	900	5	US-10-680-287A-670
11	401	62.8	900	5	US-10-477-173-670
12	401	62.8	912	4	US-10-092-900A-270
13	186.5	29.2	227	3	US-09-867-550-848
14	186.5	29.2	235	3	US-09-894-749-2
15	186.5	29.2	235	4	US-10-258-371B-20
16	186.5	29.2	235	5	US-10-989-054-2
17	184.5	28.9	119	4	US-10-087-684-107
18	184.5	28.9	119	4	US-10-218-779-107
19	181.5	28.4	916	5	US-10-899-422-13
20	181.5	28.4	1059	5	US-10-899-422-11
21	177.5	27.8	235	3	US-09-894-749-4
22	177.5	27.8	235	5	US-10-989-054-4
23	173.5	27.2	284	4	US-10-094-749-1650
24	172.5	27.0	519	4	US-10-113-794A-2
25	172.5	27.0	519	4	US-10-428-487-14
26	172.5	27.0	519	4	US-10-258-371B-28
27	172.5	27.0	591	4	US-10-108-260A-3970

28 172.5 27.0 776 4 US-10-087-192-1728 Sequence 1728, Ap
29 172.5 27.0 917 5 US-10-487-092-15 Sequence 15, Appl
30 167.5 26.2 211 3 US-09-206-639-4 Sequence 4, Appl
31 167.5 26.2 211 4 US-10-258-371B-24 Sequence 24, Appl
32 167.5 26.2 211 4 US-10-408-765A-493 Sequence 493, App
33 167.5 26.2 220 3 US-09-925-300-1507 Sequence 1507, Ap
34 167.5 26.2 930 4 US-10-113-794A-1 Sequence 1, Appl
35 165 25.8 196 3 US-09-206-639-3 Sequence 3, Appl
36 165 25.8 196 3 US-09-736-457-339 Sequence 339, App
37 165 25.8 196 3 US-09-902-941-339 Sequence 339, App
38 165 25.8 196 3 US-09-849-626-339 Sequence 339, App
39 165 25.8 196 3 US-09-476-300-339 Sequence 339, App
40 165 25.8 196 4 US-10-017-754-339 Sequence 339, App
41 165 25.8 196 4 US-10-113-872-339 Sequence 339, App
42 165 25.8 196 4 US-10-247-671-176 Sequence 176, App
43 165 25.8 196 4 US-10-283-017-339 Sequence 339, App
44 165 25.8 217 3 US-09-925-301-1292 Sequence 1292, Ap
45 165 25.8 923 4 US-10-114-270-152 Sequence 152, App

ALIGNMENTS

RESULT 1
US-10-723-860-1797
; Sequence 1797, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Naraeha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnick, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10723, 860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1797
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-723-860-1797

Query Match 97.7% Score 624; DB 5; Length 843;
Best Local Similarity 95.9%; Pred. No. 3.4e-60;
Matches 118; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1 WTKSLHSLGGDGGAYLFRFTFLEREKCYDVTLDLDFWACNGFRQMLKDTKTLRVAKAIYKR 60
|||||
Db 78 WTKSLHSLGGDGGAYLFRFTFLEREKCYDVTLDLDFWACNGFRQMLKDTKTLRVAKAIYKR 137
|||||
QY 61 YIENNSVYSKQLKPKATKYIIRDGKKQIGSVWFDQATEIQAVNEENAYQVFLTSDIYL 120
|||||
Db 138 YIENNSVYSKQLKPKATKYIIRDGKKQIGSVWFDQATEIQAVNEENAYQVFLTSDIYL 197
|||||
QY 121 EVV 123
|||
Db 198 EVV 200
|||

RESULT 2

US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON

; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-751-736-116

Query Match 97.7%; Score 624; DB 5; Length 843;
Best Local Similarity 95.9%; Pred. No. 3.4e-60;
Matches 118; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTKSLHSLGDDGAGYLFRFTFLERKCVDTLDFWFACNGFROMNLKDTKTLRVAKAIYKR 60
Db 78 WTKSLHSLGDDGAGYLFRFTFLERKCVDTLDFWFACNGFROMNLKDTKTLRVAKAIYKR 137

QY 61 YIENNSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 120
Db 138 YIENNSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 197

QY 121 EYV 123
Db 198 EYV 200

RESULT 3
US-09-798-831-8
; Sequence 8, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306UI
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-798-831-8

Query Match 65.7%; Score 420; DB 3; Length 842;
Best Local Similarity 61.1%; Pred. No. 1.6e-37;
Matches 77; Conservative 25; Mismatches 20; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAGYLFRFTFLERKCVDTLDFWFACNGFROMNLKDTKT---LRVAKAI 57
Db 85 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGRKLEPCDSNEEKRLKLARAI 144

QY 58 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 145 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 204

QY 117 DIVLEY 122
Db 205 DIVLEY 210

RESULT 4
US-10-786-720-34
; Sequence 34, Application US/10786720

; Publication No. US2004019181A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 34
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-34

Query Match 62.8%; Score 401; DB 4; Length 461;
Best Local Similarity 62.7%; Pred. No. 9.7e-36;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAGYLFRFTFLERKCVDTLDFWFACNGFROMNLKDT---KTLRVAKAI 57
Db 134 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGRKLEPCDSNEEKRLKLARAI 193

QY 58 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 194 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 253

QY 117 DIVLEY 122
Db 254 DIVLEY 259

RESULT 5
US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US2004019181A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match 62.8%; Score 401; DB 4; Length 826;
Best Local Similarity 62.7%; Pred. No. 2e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAGYLFRFTFLERKCVDTLDFWFACNGFROMNLKDT---KTLRVAKAI 57
Db 85 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGRKLEPCDSNEEKRLKLARAI 144

QY 58 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 145 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 204

QY 117 DIVLEY 122
Db 205 DIVLEY 210

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RESULT 6
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match 62.8%; Score 401; DB 4; Length 862;
Best Local Similarity 62.7%; Pred. No. 2.1e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAYLFTFLEREKCVDTLDFWFCNGFRQNLKDT---KTLRVAKAI 57
DB 85 WAESLSLHLLDDGGISLFTFLKQGCADLLDFWFACTGFKLEPCDSNEEKRLKLARI 144
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
DB 145 YRKYLDNNGIVSRQTKPATKSPKIGKIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 204
QY 117 DIYLEY 122
DB 205 DIYLEY 210

RESULT 7
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; FILE REFERENCE: 032796-021
; CURRENT APPLICATION NUMBER: US/10/374,979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/543,771
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 109
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-374-979-91

Query Match 62.8%; Score 401; DB 4; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAYLFTFLEREKCVDTLDFWFCNGFRQNLKDT---KTLRVAKAI 57
DB 122 WAESLSLHLLDDGGISLFTFLKQGCADLLDFWFACTGFKLEPCDSNEEKRLKLARI 181

RESULT 8
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-182-936A-91

Query Match 62.8%; Score 401; DB 4; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAYLFTFLEREKCVDTLDFWFCNGFRQNLKDT---KTLRVAKAI 57
DB 122 WAESLSLHLLDDGGISLFTFLKQGCADLLDFWFACTGFKLEPCDSNEEKRLKLARI 181
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
DB 182 YRKYLDNNGIVSRQTKPATKSPKIGKIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 241
QY 117 DIYLEY 122
DB 242 DIYLEY 247

RESULT 9
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
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QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
DB 182 YRKYLDNNGIVSRQTKPATKSPKIGKIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 241
QY 117 DIYLEY 122
DB 242 DIYLEY 247

RESULT 8
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-182-936A-91

Query Match 62.8%; Score 401; DB 4; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAYLFTFLEREKCVDTLDFWFCNGFRQNLKDT---KTLRVAKAI 57
DB 122 WAESLSLHLLDDGGISLFTFLKQGCADLLDFWFACTGFKLEPCDSNEEKRLKLARI 181
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
DB 182 YRKYLDNNGIVSRQTKPATKSPKIGKIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 241
QY 117 DIYLEY 122
DB 242 DIYLEY 247

RESULT 9
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
```

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; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match      62.8%; Score 401; DB 5; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLLDGQDGAYLFRFTLEKRCVDTLDFWACNGFRQNLKDT---KTLRVAKAI 57
Db 122 WAESLSLDDQDGISLFRFTLEKRCVDTLDFWACNGFRQNLKDT---KTLRVAKAI 181

QY 58 YKRYI-ENNSVSVSKQLPKATKYIRDGIKKQKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNGIVSRQTKPATKSPFKGKIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 10
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match      62.8%; Score 401; DB 5; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLLDGQDGAYLFRFTLEKRCVDTLDFWACNGFRQNLKDT---KTLRVAKAI 57
Db 122 WAESLSLDDQDGISLFRFTLEKRCVDTLDFWACNGFRQNLKDT---KTLRVAKAI 181

QY 58 YKRYI-ENNSVSVSKQLPKATKYIRDGIKKQKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNGIVSRQTKPATKSPFKGKIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 241
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QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 11
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match      62.8%; Score 401; DB 5; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLLDGQDGAYLFRFTLEKRCVDTLDFWACNGFRQNLKDT---KTLRVAKAI 57
Db 122 WAESLSLDDQDGISLFRFTLEKRCVDTLDFWACNGFRQNLKDT---KTLRVAKAI 181

QY 58 YKRYI-ENNSVSVSKQLPKATKYIRDGIKKQKQIGSVMFDOAQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNGIVSRQTKPATKSPFKGKIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 12
US-10-092-900A-270
; Sequence 270, Application US/10092900A
; Publication No. US20040043382A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Taupier Jr., Raymond J.
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Li, Li
; APPLICANT: Zernusen, Bryan D.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Ji, Weizhen
; APPLICANT: Gorman, Linda
; APPLICANT: Miller, Charles E.
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gangolli, Esha A.
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APPLICANT: Vernet, Corine A.M.
APPLICANT: Guo, Xiaojia Sasha
APPLICANT: Tchernev, Velizar T.
APPLICANT: Fernandes, Elma R.
APPLICANT: Casman, Stacie J.
APPLICANT: Malyankar, Uriel M.
APPLICANT: Gerlach, Valerie
APPLICANT: Liu, Yi
APPLICANT: Anderson, David W.
APPLICANT: Spaderna, Steven K.
APPLICANT: Catterton, Elina
APPLICANT: Leite, Mario W.
APPLICANT: Zhong, Haihong
APPLICANT: Alsobrook, John P.
APPLICANT: Lepley, Denise M.
APPLICANT: Rieger, Daniel K.
APPLICANT: Burgess, Catherine E.
TITLE OF INVENTION: No. US20040043382A1 Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-290C
CURRENT APPLICATION NUMBER: US/10/092,900A
CURRENT FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: US/60/274,322
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: US/60/283,675
PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: US/60/338,092
PRIOR FILING DATE: 2001-12-03
PRIOR APPLICATION NUMBER: US/60/274,281
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: US/60/274,191
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: US/60/325,681
PRIOR FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: US/60/304,354
PRIOR FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: US/60/279,995
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: US/60/294,899
PRIOR FILING DATE: 2001-05-31
PRIOR APPLICATION NUMBER: US/60/287,424
PRIOR FILING DATE: 2001-04-30
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 768
SEQ ID NO 270
LENGTH: 912
TYPE: PRT
ORGANISM: Homo sapiens
US-10-092-900A-270

Query Match 62.8%; Score 401; DB 4; Length 912;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDODGAYLRTFLERKCVDTLDFWACNGFRQMNKDT---KTLRVAKAI 57
DB 134 WABSLHSLDDDDGSLRFTFLKQSGCADLLDFWPACTGFRKLEPCDSNEEKRLARAI 193
QY 58 YKRYI-ENNVSVVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIQAVMEENAYQVFLTS 116
DB 194 YRKYILDNNGIVSRQTKPATKSFYKGCIMKQLIDPAMFDQAQTEIQAVMEENAYQVFLTS 253
QY 117 DYLEY 122
DB 254 DYLEY 259

RESULT 13
US-09-867-550-848
Sequence 848, Application US/09867550
Patent No. US20020082206A1
GENERAL INFORMATION:
APPLICANT: Leach, Martin D.
APPLICANT: Mehraban, Fuad,

APPLICANT: Conley, Pamela
APPLICANT: Law, Debbie
APPLICANT: Topper, James
TITLE OF INVENTION: No. US20020082206A1 Polynucleotides from Atherogenic Cells an
FILE OF INVENTION: Thereby
FILE REFERENCE: 21402-013 (Cura-313)
CURRENT APPLICATION NUMBER: US/09/867,550
CURRENT FILING DATE: 2001-09-20
PRIOR APPLICATION NUMBER: USSN 60/208,427
PRIOR FILING DATE: 2000-05-30
NUMBER OF SEQ ID NOS: 2125
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 848
LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapiens
US-09-867-550-848

Query Match 29.2%; Score 186.5; DB 3; Length 227;
Best Local Similarity 34.6%; Pred. No. 2.8e-12;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

QY 1 WTKSLHSLGDODGAYLRTFLERKCVDTLDFWACNGFR-----QMNKDTKTLVA 54
DB 83 WGESFDKLLSHRDGLEAFTRFLKTEFSEENIEFWIACEDFKSKGPOQIHLK-----A 135
QY 55 KAIYKRYIENNVSVVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIQAVMEENAYQVFL 114
DB 136 KAIYKFIQTDAPKEVNLDFHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193
QY 115 TSDIYLE 121
DB 194 KSDIYLD 200

RESULT 14
US-09-894-749-2
Sequence 2, Application US/09894749
Patent No. US20020081683A1
GENERAL INFORMATION:
APPLICANT: Hodge, Martin R.
APPLICANT: Yowe, David
TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
FILE REFERENCE: 5800-19, 035800/174680
CURRENT APPLICATION NUMBER: US/09/894,749
CURRENT FILING DATE: 2001-06-27
PRIOR APPLICATION NUMBER: 09/244,314
PRIOR FILING DATE: 1999-02-04
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 235
TYPE: PRT
ORGANISM: Homo sapiens
US-09-894-749-2

Query Match 29.2%; Score 186.5; DB 3; Length 235;
Best Local Similarity 34.6%; Pred. No. 2.9e-12;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

QY 1 WTKSLHSLGDODGAYLRTFLERKCVDTLDFWACNGFR-----QMNKDTKTLVA 54
DB 83 WGESFDKLLSHRDGLEAFTRFLKTEFSEENIEFWIACEDFKSKGPOQIHLK-----A 135
QY 55 KAIYKRYIENNVSVVSKQLKPKATKYIRDGIKKQIGSVMFDOAQTEIQAVMEENAYQVFL 114
DB 136 KAIYKFIQTDAPKEVNLDFHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193
QY 115 TSDIYLE 121
DB 194 KSDIYLD 200


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RESULT 15
US-10-258-371B-20
; Sequence 20, Application US/10258371B
; Publication No. US20040067903A1
; GENERAL INFORMATION:
; APPLICANT: WILLIAMS-GAGNON, Alison
; APPLICANT: MURRAY, David L
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING A NOVEL REGULATOR OF G PROTEIN SIGNALING,
; FILE REFERENCE: A3656 US PCT
; CURRENT APPLICATION NUMBER: US/10/258,371B
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: GB001883.334
; PRIOR FILING DATE: 2000-08-02
; PRIOR APPLICATION NUMBER: US60/200,786
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 20
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-258-371B-20

Query Match      29.2%; Score 186.5; DB 4; Length 235;
Best Local Similarity 34.6%; Pred. No. 2.9e-12;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

QY 1 WTKSLHSLGDDGGAYLFTFLERKCVDTLDFWFCNGFR-----QNNLKDTKTLRVA 54
DB 83 WGESFDKLLSHRDGLEAFTFLKTEFSEENIEFWIACEDFKSKGPGQIHLK-----A 135
QY 55 KAIYKRYIENNSVVSQKLPATKYIRDGKKQIGSVMFDOAQTEIOAVMEENAYQVEL 114
DB 136 KAIYKRFIQTAPKEVNLDFHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193
QY 115 TSDIYLE 121
DB 194 KSDIYLD 200
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Search completed: April 20, 2006, 16:06:45
Job time : 43.7309 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 20, 2006, 16:00:23 ; Search time 6.8153 Seconds
(without alignments)

794.148 Million cell updates/sec

Title: US-09-587-574-2

Perfect score: 639

Sequence: 1 WTKSHLSLLGDDGAYLFRFT.....VMEENAYQVFLTSDIYLEYV 123

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 225428 seqs, 4402918 residues

Total number of hits satisfying chosen parameters: 225428

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications_AA_New:*

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2: /SIDSS/ptodata/2/pubpaa/US06_NEW_PUB.pep:*

3: /SIDSS/ptodata/2/pubpaa/US07_NEW_PUB.pep:*

4: /SIDSS/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*

5: /SIDSS/ptodata/2/pubpaa/US09_NEW_PUB.pep:*

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8: /SIDSS/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	401	62.8	900	US-10-501-035-215	Sequence 215, Appl
2	167.5	26.2	211	US-10-501-035-208	Sequence 208, Appl
3	167.5	26.2	211	US-11-169-041-234	Sequence 234, Appl
4	74.5	11.7	662	US-11-137-131-2	Sequence 2, Appli
5	74.5	11.7	662	US-11-137-131-4	Sequence 4, Appli
6	71.5	11.2	285	US-11-096-568A-3946	Sequence 3946, Ap
7	71.5	11.2	344	US-11-096-568A-3945	Sequence 3945, Ap
8	71	11.1	689	US-11-113-424-46	Sequence 46, Appl
9	70.5	11.0	691	US-11-098-686-10183	Sequence 10183, A
10	70	11.0	430	US-11-079-463-7120	Sequence 7120, Ap
11	70	11.0	559	US-11-188-298-20062	Sequence 20062, A
12	70	11.0	688	US-11-113-424-49	Sequence 49, Appl
13	70	11.0	688	US-11-040-218-25	Sequence 25, Appl
14	69.5	10.9	247	US-11-096-568A-3947	Sequence 3947, Ap
15	69	10.8	312	US-10-506-454-1069	Sequence 1069, Ap
16	69	10.8	459	US-11-045-004-835	Sequence 835, Appl
17	69	10.8	688	US-11-113-424-48	Sequence 48, Appl
18	69	10.8	688	US-11-040-218-27	Sequence 27, Appl
19	69	10.8	1032	US-10-467-657-3278	Sequence 3278, Ap
20	68	10.6	395	US-11-188-298-10115	Sequence 10115, A
21	67	10.5	230	US-11-098-686-10988	Sequence 10988, A
22	67	10.5	868	US-11-079-463-8350	Sequence 8350, Ap
23	66.5	10.4	656	US-11-079-463-7123	Sequence 7123, Ap
24	66.5	10.4	753	US-11-188-298-14664	Sequence 14664, A
25	66	10.3	300	US-11-045-004-1489	Sequence 1489, Ap

RESULT 1

US-10-501-035-215

; Sequence 215, Application US/10501035

; Publication No. US20060046249A1

; GENERAL INFORMATION:

; APPLICANT: Bristol-Myers Squibb Company

; TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDES AND POLYPEPTIDE FOR PREDICTING

; TITLE OF INVENTION: ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE

; TITLE OF INVENTION: AND/OR PROTEIN TYROSINE KINASE PATHWAYS

; FILE REFERENCE: D0185 PCT

; CURRENT APPLICATION NUMBER: US/10/501,035

; CURRENT FILING DATE: 2004-07-09

; PRIOR APPLICATION NUMBER: US 60/350,061

; PRIOR FILING DATE: 2002-01-18

; NUMBER OF SEQ ID NOS: 795

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 215

; LENGTH: 900

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-501-035-215

Query Match 62.8%; Score 401; DB 6; Length 900;

Best Local Similarity 62.7%; Pred. No. 3.9e-35; Mismatches 26; Indels 4; Gaps 2;

Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSHLSLLGDDGAYLFRFTFLEREKCVDTLDFWACNGFQWNLKDT---KTLRVAKAI 57

Db 122 WAESLSHLLDQDGLSLFTFLKQSGCADDLDFWACTGFRKLEPCDSNEERKLARAI 181

QY 58 YKRYI-ENNSVSKOLKPKATKYIRDGKKQIGSVWFDQAOTETAQVMEENAYQVFLTS 116

Db 182 YKRYILDNNGVISRTQPKATKSFKIGCKIMKQLIDPAMFDQAOTETAQVMEENAYQVFLTS 241

QY 117 DYLEY 122

Db 242 DYLEY 247

RESULT 2

US-10-501-035-208

; Sequence 208, Application US/10501035

; Publication No. US20060046249A1

; GENERAL INFORMATION:

; APPLICANT: Bristol-Myers Squibb Company

; TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDES FOR PREDICTING

; TITLE OF INVENTION: ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE

; TITLE OF INVENTION: AND/OR PROTEIN TYROSINE KINASE PATHWAYS

Sequence 2708, Ap
Sequence 1735, Ap
Sequence 106, App
Sequence 1604, Ap
Sequence 40, Appl
Sequence 1390, Ap
Sequence 8912, Ap
Sequence 27554, A
Sequence 27553, A
Sequence 27552, A
Sequence 31249, A
Sequence 31248, A
Sequence 31247, A
Sequence 12890, A
Sequence 50, Appl
Sequence 1528, Ap
Sequence 28742, A
Sequence 28741, A
Sequence 28740, A

ALIGNMENTS

995 7 US-11-188-298-2708
168 7 US-11-045-004-1735
156 6 US-10-508-263-106
295 6 US-10-467-657-1604
663 7 US-11-143-984A-40
886 6 US-10-821-234-1390
168 7 US-11-079-463-8912
609 7 US-11-096-568A-27554
646 7 US-11-096-568A-27553
715 7 US-11-096-568A-27552
1855 7 US-11-096-568A-31249
1885 7 US-11-096-568A-31248
1992 7 US-11-096-568A-31247
378 6 US-10-507-720-16
488 7 US-11-188-298-12890
817 6 US-10-793-626-50
817 6 US-10-793-626-1528
271 7 US-11-096-568A-28742
308 7 US-11-096-568A-28741
377 7 US-11-096-568A-28740


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RESULT 6
US-11-096-568A-3946
; Sequence 3946, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3946
; LENGTH: 285
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(285)
; OTHER INFORMATION: Ceres Seq. ID no. 13594271
US-11-096-568A-3946

Query Match 11.2%; Score 71.5; DB 7; Length 285;
Best Local Similarity 27.3%; Pred. No. 4.1;
Matches 30; Conservative 16; Mismatches 41; Indels 23; Gaps 5;

QY 11 DODGAYLFRFLEREKCVDTLDFWACNGFRQNLKDTKTLRVAKAIYKRYIENNSVSVK 70
   |||||
DB 30 DADG-YLRKMLEG-----CCNGVEGVNLKE-----ITNEKISNSMCLYL 68

QY 71 QLKPKATKYIRDGKKQIGSVMPDQATETIQAVMEENAYQVFLTS-DIY 119
   |||||
DB 69 DWNPSA-TSITVGLSDGVSIVSFLESKLEIQEWEKHAHDYELWTTTSFDIH 117

RESULT 7
US-11-096-568A-3945
; Sequence 3945, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3945
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(344)
; OTHER INFORMATION: Ceres Seq. ID no. 13594270
US-11-096-568A-3945

Query Match 11.2%; Score 71.5; DB 7; Length 344;
Best Local Similarity 27.3%; Pred. No. 5.2;
Matches 30; Conservative 16; Mismatches 41; Indels 23; Gaps 5;

QY 11 DODGAYLFRFLEREKCVDTLDFWACNGFRQNLKDTKTLRVAKAIYKRYIENNSVSVK 70
   |||||
DB 89 DADG-YLRKMLEG-----CCNGVEGVNLKE-----ITNEKISNSMCLYL 127

QY 71 QLKPKATKYIRDGKKQIGSVMPDQATETIQAVMEENAYQVFLTS-DIY 119
   |||||
DB 128 DWNPSA-TSITVGLSDGVSIVSFLESKLEIQEWEKHAHDYELWTTTSFDIH 176

RESULT 8
US-11-113-424-46
; Sequence 46, Application US/11113424
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; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 46
; LENGTH: 689
; TYPE: PRT
; ORGANISM: Didelphis virginiana
US-11-113-424-46

Query Match 11.1%; Score 71; DB 7; Length 689;
Best Local Similarity 20.4%; Pred. No. 14;
Matches 23; Conservative 33; Mismatches 51; Indels 6; Gaps 4;

QY 14 GAYLFRFTL--EREKCVDTLDFWACNGFRQNLKDTKTLRVAKAIYKRYIENNSVSVK 71
   |||||
DB 64 GYLLFRFCLNHMEBAKPLVFYDEIKYKELDSERTVK-SREIFDLYIMKLLSCSH 122

QY 72 L--KPKATKYIRDGKKQIGSVMPDQATETIQAVMEENAYQVFLTS-DIY 122
   |||||
DB 123 LFSKSATE-HVQSRLLKQVPTDLFPQYIEECQFRDDVDFOKFIESEKFTRP 174

RESULT 9
US-11-098-686-10183
; Sequence 10183, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10183
; LENGTH: 691
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-10183

Query Match 11.0%; Score 70.5; DB 7; Length 691;
Best Local Similarity 22.2%; Pred. No. 16;
Matches 22; Conservative 18; Mismatches 34; Indels 25; Gaps 4;
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Qy 26 KCVDTLDFWFAAGCFROMNLK--DTKTLRVAKAIYKRYIENSVVSKOLKPAKTKTYIRDG 83
Db 601 KDFSSIOFWFEKN-YROONLNLINLNISSLOSPLKYSLQ-----G 640
Qy 84 IKKQOIGS---VMPDQATQEIQAQVMEENAYQVFLTSIY 119
Db 641 YKKNDIYSETGISFEYTIINDVLTIHARNCTFLHNMKNIF 679

RESULT 10
US-11-079-463-7120
; Sequence 7120, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAPA
; FILE REFERENCE: FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7120
; LENGTH: 430
; TYPE: PRT
; ORGANISM: B. fragilis
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (70)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-11-079-463-7120

Query Match 11.0%; Score 70; DB 7; Length 430;
Best Local Similarity 25.0%; Pred. No. 10;
Matches 30; Conservative 15; Mismatches 29; Indels 46; Gaps 7;

Qy 6 HSLUGDQDGAYLF-----RTFLERK---CVDTLD-----FWFAC--- 37
Db 261 HSYOGDSRGAEVFARLGVATEYETGIRLKKNGTCVERLDEDFVDIPDLAQTFVVTCALL 320
Qy 38 -----NGFROMNLKOTKTLRVAKAIYK--YI---ENNSVVS-----KOLKPAKTKY 79
Db 321 NVPRFRTGLQSLKIDTREALTKMKLGYILHDKNDSILSDWGERVEQQTCPVIKTY 380

RESULT 11
US-11-188-298-20062
; Sequence 20062, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 20062
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Bacillus cereus ATCC 14579
US-11-188-298-20062

Query Match 11.0%; Score 70; DB 7; Length 559;
Best Local Similarity 24.0%; Pred. No. 14;
Matches 30; Conservative 25; Mismatches 42; Indels 28; Gaps 7;

Qy 1 WTKSLHLLGDQDGAYLFRFTFLERKCVDTLDWFACNGFROM--NLKOTKTLRVAKAIY 58

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Db 182 WAKN-----IGFLDLAHGFSIAMKEE-----IDFKIEARNFEQVSDSLKNSETKVKIPKY 233
Qy 59 KRYIENNVSVSKLPATKTYIRDGIIKKQIGSGVMFDOAQTEIQAVMEENAYQVFTSDI 118
Db 233 KYSNSKILVLEFL-----DGVSVKSGSALLNELQIDTKKVOR-----OLF---DC 275
Qy 119 YLEYV 123
Db 276 ILEQI 280

RESULT 12
US-11-113-424-49
; Sequence 49, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-113-424-49

Query Match 11.0%; Score 70; DB 7; Length 688;
Best Local Similarity 20.5%; Pred No. 18;
Matches 23; Conservative 27; Mismatches 58; Indels 4; Gaps 3

Qy 14 GAVLFRFTL--EREKCVDTLDFWFCAGNFQGNLKDITTLRVAKAIYKRYIENNV-VSK 70
Db 64 GFLLFKDFCLNEINEAVPQVKFYEEIKYEKLDNEEDRLCR-SRQIYDAYIMKLLSCSH 122
Qy 71 QLKPKATKYIRDGIIKKQIGSGVMFDOAQTEIQAVMEENAYQVFTSDIYLEY 122
Db 123 PFSQVAEHVQSHLSKKQVSTLTFQPYIEECESLRGDIFQKFMESDKFTRP 174

RESULT 13
US-11-040-218-25
; Sequence 25, Application US/11040218
; Publication No. US20060029983A1
; GENERAL INFORMATION:
; APPLICANT: OAKLEY, ROBERT H.
; TITLE OF INVENTION: HUDSON, CHRISTINE C.
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
; FILE REFERENCE: NEK.108
; CURRENT APPLICATION NUMBER: US/11/040,218
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US/10/788,197
; PRIOR FILING DATE: 2004-02-26

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[illegible]

GenCore version 5.1.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 20, 2006, 15:30:33 ; Search time 4.51187 Seconds
(without alignments)
989.497 Million cell•updates/sec

Title: US-09-587-574-3

Perfect score: 272.
Sequence: 1 ANGOVSLPHFPRTTHRLPKEM.....RLEKLELESRSHSLEERLQ 54

Scoring table: BLOSUM62

Gapex 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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3: /eghz_6/ptodata/1/1aa/H_COMB.pep:
4: /cgn2_6/ptodata/1/1aa/PCITIS.COMB.p

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4: /cqn2_5/ptodata/1/iaa/RE COMB.rep:
5: /cqn2_6/ptodata/1/iaa/RE COMB.rep:
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6: /cgn2_6/ptodata/1/iaa/backfiles1.p

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	157.5	57.9	855	2	US-08-890-865A-10	Sequence 10, Appl
2	142.5	52.4	992	2	US-08-890-865A-1	Sequence 1, Appl
3	141.5	52.0	900	2	US-08-890-865A-4	Sequence 4, Appl
4	69.5	25.6	271	2	US-09-252-991A-36051	Sequence 26051, A
5	65	23.9	462	1	US-08-458-023B-2	Sequence 2, Appl
6	65	23.9	463	2	US-09-111-556A-2	Sequence 2, Appl
7	65	23.9	463	2	US-08-360-758-2	Sequence 2, Appl
8	61	22.4	392	2	US-09-902-540-15206	Sequence 15206, A
9	60	22.1	188	2	US-09-902-540-14932	Sequence 14932, A
10	59.5	21.9	222	2	US-09-902-540-13429	Sequence 13429, A
11	58.5	21.5	277	2	US-09-248-796A-21807	Sequence 21807, A
12	58.5	21.5	1061	2	US-10-200-013-4	Sequence 4, Appl
13	57	21.0	392	2	US-09-949-016-6078	Sequence 6078, Ap
14	57	21.0	832	2	US-09-758-282B-251	Sequence 251, App
15	57	21.0	832	2	US-09-758-282B-268	Sequence 268, App
16	57	21.0	832	2	US-09-577-304A-251	Sequence 251, App
17	57	21.0	832	2	US-09-577-304A-268	Sequence 268, App
18	57	21.0	838	2	US-09-758-282B-261	Sequence 261, App
19	57	21.0	838	2	US-09-758-282B-265	Sequence 265, App
20	57	21.0	838	2	US-09-577-304A-261	Sequence 261, App
21	57	21.0	838	2	US-09-577-304A-265	Sequence 265, App
22	56.5	20.8	320	2	US-09-252-991A-30322	Sequence 30322, A
23	56.5	20.8	320	2	US-09-107-433-2791	Sequence 2791, Ap
24	56.5	20.8	534	1	US-08-317-401E-2	Sequence 2, Appl
25	56.5	20.8	552	1	US-08-317-401E-4	Sequence 4, Appl
26	56	20.6	288	2	US-09-270-767-43786	Sequence 43786, A
27	56	20.6	558	2	US-09-252-991A-16908	Sequence 16908, A

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RESULT 2
US-08-890-865A-1
; Sequence 1, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 992 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-1

Query Match 52.4%; Score 142.5; DB 2; Length 992;
Best Local Similarity 56.6%; Pred. No. 2.8e-09;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NCGVSLPHFPRTHLPKEMTPVEPAFAAEALISRLKLEKLESRHSLEERLQ 54
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DB 492 NGRVLPHPRTYRVPKPIR-VEPOKFAELIHRLEAVORTREAEKLEERLK 543

RESULT 3
US-08-890-865A-4
; Sequence 4, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 992 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-1

Query Match 52.4%; Score 142.5; DB 2; Length 992;
Best Local Similarity 56.6%; Pred. No. 2.8e-09;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NCGVSLPHFPRTHLPKEMTPVEPAFAAEALISRLKLEKLESRHSLEERLQ 54
||:|||||:||||:|||||:|||||:|||||:|||||:|||||:
DB 492 NGRVLPHPRTYRVPKPIR-VEPOKFAELIHRLEAVORTREAEKLEERLK 543
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RESULT 4
US-09-252-991A-26051
; Sequence 26051, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26051
; LENGTH: 271
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-26051

Query Match 25.6%; Score 69.5; DB 2; Length 271;
Best Local Similarity 32.1%; Pred. No. 0.78;
Matches 18; Conservative 10; Mismatches 13; Indels 15; Gaps 2;

QY 1 ANGVSLPHFPRTHLPKEMTPVEPAFAAEALISRLKLEKLESRHSLEER 52
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DB 198 ANGELTSLH-----VPAEPAGYWEILLVRLTLDTGTVVELSGKGAQEW 242

RESULT 5
US-08-458-023B-2
; Sequence 2, Application US/08458023B
; Patent No. 5667990
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M.
; APPLICANT: Yoder, Wendy
; APPLICANT: Takagi, Shinobu
; APPLICANT: Boomnathan, Karuppan C.
; TITLE OF INVENTION: ASPERGILLUS EXPRESSION SYSTEM
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5667990o No. 5667990disk of No. 5667990th America., Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
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QY 1 ANGVSLPHFPR--THRLPKMTPEPAA 27

ORGANISM: Human
US-10-200-012-4

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Best Local Similarity 34.0%; Pred. No. 90;
Matches 16; Conservative 10; Mismatches 16; Indels 5; Gaps 2;
Qy 4 QVSLPHPRTHRL---PKEMTPVP--AFAAEALISRLKLELES 45
Db 383 QSSLEHEPETHLHPQHEESVWPTQSTLTADDMMRAKRIRLELQN 429

RESULT 13

US-09-949-016-6078
; Sequence 6078, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6078
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6078

Query Match 21.0%; Score 57; DB 2; Length 392;
Best Local Similarity 36.7%; Pred. No. 43;
Matches 18; Conservative 9; Mismatches 14; Indels 8; Gaps 3;
Qy 11 PRTHLPKEMTPVP---AFAAEALISRLKLELES-SRHSLEERLQ 54
Db 289 PRTRKLKKXKNEKEDKRPTAFTAB---OLORLKAEFOANRYITEORQ 334

RESULT 14

US-09-758-282B-251
; Sequence 251, Application US/09758282B
; Patent No. 6635463
; GENERAL INFORMATION:
; APPLICANT: Ma, Wu-Po
; APPLICANT: Lyamichev, Victor I.
; APPLICANT: Kaiser, Michael W.
; APPLICANT: Lyamicheva, Natalie E.
; APPLICANT: Allawi, Hatim T.
; APPLICANT: Schaefer, James J.
; APPLICANT: Neri, Bruce P.
; TITLE OF INVENTION: Enzymes for the Detection of Nucleic Acid Sequences
; FILE REFERENCE: FORS 04931
; CURRENT APPLICATION NUMBER: US/09/758,282B
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 09/577,304
; PRIOR FILING DATE: 2000-05-24
; NUMBER OF SEQ ID NOS: 280
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 251
; LENGTH: 832
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-758-282B-251

Query Match 21.0%; Score 57; DB 2; Length 832;
Best Local Similarity 41.4%; Pred. No. 1e+02;
Matches 12; Conservative 7; Mismatches 10; Indels 0; Gaps 0;
Qy 16 LPKEMTPVPEPAFAAEALISRLKLELE 44
Db 216 LLKHLEQVKPASVREKILSHMEDLKLSLE 244

RESULT 15

US-09-758-282B-268
; Sequence 268, Application US/09758282B
; Patent No. 6635463
; GENERAL INFORMATION:
; APPLICANT: Ma, Wu-Po
; APPLICANT: Lyamichev, Victor I.
; APPLICANT: Kaiser, Michael W.
; APPLICANT: Lyamicheva, Natalie E.
; APPLICANT: Allawi, Hatim T.
; APPLICANT: Schaefer, James J.
; APPLICANT: Neri, Bruce P.
; TITLE OF INVENTION: Enzymes for the Detection of Nucleic Acid Sequences
; FILE REFERENCE: FORS 04931
; CURRENT APPLICATION NUMBER: US/09/758,282B
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 09/577,304
; PRIOR FILING DATE: 2000-05-24
; NUMBER OF SEQ ID NOS: 280
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 268
; LENGTH: 832
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-758-282B-268

Query Match 21.0%; Score 57; DB 2; Length 832;
Best Local Similarity 41.4%; Pred. No. 1e+02;
Matches 12; Conservative 7; Mismatches 10; Indels 0; Gaps 0;
Qy 16 LPKEMTPVPEPAFAAEALISRLKLELE 44
Db 216 LLKHLEQVKPASVREKILSHMEDLKLSLE 244

Search completed: April 20, 2006, 15:32:29
Job time : 5.51187 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 20, 2006, 15:57:53 ; Search time 18.7599 Seconds
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Title: US-09-587-574-3
Perfect score: 272
Sequence: 1 ANGQVSLPHFPRTHRLPKEM.....RLEKLESLRSHSLERLQ 54

Scoring table: BLOSUM62
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Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pap.*
3: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pap.*
4: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pap.*
5: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pap.*
6: /cgn2_6/prodata/1/pubpaa/US11_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	268	98.5	843	5	US-10-723-860-1797
2	268	98.5	843	5	US-10-751-736-116
3	141.5	52.0	826	4	US-10-786-720-36
4	141.5	52.0	862	4	US-10-786-720-35
5	141.5	52.0	900	4	US-10-374-979-91
6	141.5	52.0	900	4	US-10-182-936A-91
7	141.5	52.0	900	5	US-10-477-238A-670
8	141.5	52.0	900	5	US-10-680-287A-670
9	141.5	52.0	900	5	US-10-477-173-670
10	141.5	52.0	912	4	US-10-092-900A-270
11	136.5	50.2	842	3	US-09-798-831-8
12	118	43.4	25	3	US-09-798-831-6
13	118	43.4	25	3	US-09-798-831-7
14	114	41.9	25	3	US-09-798-831-5
15	68	25.0	2590	4	US-10-072-012-490
16	65	23.9	25	3	US-09-798-831-2
17	65	23.9	455	4	US-10-926-542-103
18	65	23.9	462	4	US-10-815-495-28
19	64	23.5	658	4	US-10-437-963-196297
20	61.5	22.6	995	3	US-09-486-734A-2
21	60.5	22.2	373	5	US-10-739-930-10557
22	60	22.1	120	4	US-10-425-115-213813
23	60	22.1	508	4	US-10-425-115-254698
24	59.5	21.9	176	3	US-09-864-761-48059
25	59.5	21.9	183	5	US-10-370-715B-740
26	59.5	21.9	213	4	US-10-437-963-190644
27	59.5	21.9	302	4	US-10-437-963-141244

28	59.5	21.9	369	5	US-10-732-923-1342	Sequence 1342, Ap
29	59.5	21.9	410	4	US-10-408-765A-407	Sequence 407, App
30	59.5	21.9	415	4	US-10-437-963-108781	Sequence 108781,
31	59.5	21.9	459	5	US-10-128-558-245	Sequence 245, App
32	59.5	21.9	614	4	US-10-437-963-140936	Sequence 140936,
33	59.5	21.9	833	5	US-10-799-369-15	Sequence 15, Appl
34	59.5	21.9	833	5	US-10-799-369-16	Sequence 16, Appl
35	59.5	21.9	833	5	US-10-799-369-19	Sequence 19, Appl
36	59.5	21.9	833	5	US-10-799-369-20	Sequence 20, Appl
37	59.5	21.9	833	5	US-10-799-369-23	Sequence 23, Appl
38	59.5	21.9	833	5	US-10-799-369-24	Sequence 24, Appl
39	59.5	21.9	833	5	US-10-799-369-27	Sequence 27, Appl
40	59.5	21.9	833	5	US-10-799-369-28	Sequence 28, Appl
41	59.5	21.9	931	4	US-10-437-963-123393	Sequence 123393,
42	59.5	21.9	2613	4	US-10-038-854-40	Sequence 40, Appl
43	59.5	21.9	2628	4	US-10-038-854-40	Sequence 40, Appl
44	59.5	21.9	2715	4	US-10-042-865-52	Sequence 52, Appl
45	59.5	21.9	2715	4	US-10-029-020-51	Sequence 51, Appl

ALIGNMENTS

RESULT 1
US-10-723-860-1797
; Sequence 1797, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Gineburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10/723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1797
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-723-860-1797

Query Match 98.5%; Score 268; DB 5; Length 843;
Best Local Similarity 98.1%; Pred. No. 4.1e-23;
Matches 53; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 ANGQVSLPHFPRTHRLPKEMTPVEPAFAAELISRLKLESLRSHSLERLQ 54
Db 343 ANGQVSLPHFPRTHRLPKEMTPVEPAFAAELISRLKLESLRSHSLERLQ 396

RESULT 2
US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2


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; APPLICANT: Fernandes, Elma R.
; APPLICANT: Casman, Stacie J.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Liu, Yi
; APPLICANT: Anderson, David W.
; APPLICANT: Spaderna, Steven K.
; APPLICANT: Catterton, Elina
; APPLICANT: Leite, Mario W.
; APPLICANT: Zhong, Haihong
; APPLICANT: Alsobrook, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: No US20040043382A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-290C
; CURRENT APPLICATION NUMBER: US/10/092,900A
; CURRENT FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: USSN 60/274,322
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/283,675
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: USSN 60/338,092
; PRIOR FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: USSN 60/274,281
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/274,191
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/325,681
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: USSN 60/304,354
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: USSN 60/279,995
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: USSN 60/294,899
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: USSN 60/287,424
; PRIOR FILING DATE: 2001-04-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 768
; SEQ ID NO 270
; LENGTH: 912
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-092-900A-270

Query Match 52.0%; Score 141.5; DB 4; Length 912;
Best Local Similarity 56.6%; Pred. No. 6.1e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPFPTRHLPKMTPEVPAFAAELISRLKLEKLESRHSLEERLQ 54
Db 412 NGRVLPFPTRIRVPKEVR-VEPQFAELIHRLEAVQRTREAEKLEERLK 463

RESULT 11
US-09-798-831-8
; Sequence 8, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Murine
; OTHER INFORMATION: conductin residues 362-386
US-09-798-831-7

Query Match 43.4%; Score 118; DB 3; Length 25;
Best Local Similarity 100.0%; Pred. No. 5.4e-07;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 MTPVEPAFAAELISRLKLEKLE 44
Db 1 MTPVEPAFAAELISRLKLEKLE 25

RESULT 13
US-09-798-831-7
; Sequence 7, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Murine
; OTHER INFORMATION: conductin residues 362-386
US-09-798-831-7

Query Match 43.4%; Score 118; DB 3; Length 25;
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; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-798-831-8

Query Match 50.2%; Score 136.5; DB 3; Length 842;
Best Local Similarity 53.7%; Pred. No. 2.2e-07;
Matches 29; Conservative 10; Mismatches 14; Indels 1; Gaps 1;

QY 1 ANGQVSLPFPTRHLPKMTPEVPAFAAELISRLKLEKLESRHSLEERLQ 54
Db 362 ANGRGFLPFPTRHYMPADI-HVDPEKFAAELISRLKLEKLESLRDRREAEQKLEERLK 414

RESULT 12
US-09-798-831-6
; Sequence 6, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rat axil
; OTHER INFORMATION: residues 362-386
US-09-798-831-6

Query Match 43.4%; Score 118; DB 3; Length 25;
Best Local Similarity 100.0%; Pred. No. 5.4e-07;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 MTPVEPAFAAELISRLKLEKLE 44
Db 1 MTPVEPAFAAELISRLKLEKLE 25

RESULT 13
US-09-798-831-7
; Sequence 7, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Murine
; OTHER INFORMATION: conductin residues 362-386
US-09-798-831-7

Query Match 43.4%; Score 118; DB 3; Length 25;
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Best Local Similarity 100.0%; Pred. No. 5.4e-07;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 20 MTPVEPAFAAELISLRLEKLELE 44
Db 1 MTPVEPAFAAELISLRLEKLELE 25
RESULT 14
US-09-798-831-5
; Sequence 5, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3(BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human axin 2
; OTHER INFORMATION: residues 362-386
US-09-798-831-5

Query Match 41.9%; Score 114; DB 3; Length 25;
Best Local Similarity 96.0%; Pred. No. 1.6e-06;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 20 MTPVEPAFAAELISLRLEKLELE 44
Db 1 MTPVEPAFAAELISLRLEKLELE 25

RESULT 15
US-10-072-012-490
; Sequence 490, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shinkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A.
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Grosse, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012

CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 490
; LENGTH: 2590
; TYPE: PRT
; ORGANISM: Danio rerio
US-10-072-012-490

Query Match 25.0%; Score 68; DB 4; Length 2590;
Best Local Similarity 31.0%; Pred. No. 1.3e+02;
Matches 22; Conservative 6; Mismatches 19; Indels 24; Gaps 2;
QY 3 GOVSLPHPRTRHLPKEMT-----PVEPAFAAELISLRLEKLELE-----42
Db 76 GQSTLPPVPPPHKQPPSVTALNHNLSRRNVSPAPPALPAELQTTTPESVPLQDSWVLG 135
QY 43 ----LESRHS 49
Db 136 SNNPLESRHFL 146

Search completed: April 20, 2006, 16:06:43
Job time : 19.7599 secs

SUMMARIES									
Result No.	Score	Query			DB	ID	Description		
		Match	Length	Match					
1	141.5	52.0	900	6	US-10-501-035-215		Sequence 215, App		
2	59.5	21.9	213	7	US-11-188-298-16414		Sequence 16414,		
3	59.5	21.9	213	7	US-11-188-298-18243		Sequence 18243,		
4	59.5	21.9	323	7	US-11-096-568A-23145		Sequence 23145,		
5	59.5	21.9	369	7	US-11-188-298-17616		Sequence 17616,		
6	59.5	21.9	381	7	US-11-096-568A-23144		Sequence 23144,		
7	59.5	21.9	431	7	US-11-096-568A-23143		Sequence 23143,		
8	59.5	21.9	2715	7	US-11-096-051-2		Sequence 2, App		
9	59.5	21.9	2715	7	US-11-113-424-51		Sequence 51, App		
10	59.5	21.9	2721	7	US-11-096-051-10		Sequence 10, App		
11	59.5	21.9	2725	7	US-11-096-051-8		Sequence 8, App		
12	58.5	21.5	1061	7	US-11-121-438-4		Sequence 4, App		
13	57.5	21.1	254	7	US-11-188-298-14078		Sequence 14078,		
14	57	21.0	714	7	US-11-121-419-2		Sequence 2, App		
15	57	21.0	724	7	US-11-079-463-5959		Sequence 5959, App		
16	56.5	20.8	526	7	US-11-087-099-6670		Sequence 6670, App		
17	56	20.6	64	6	US-10-487-657-7122		Sequence 7122, App		
18	56	20.6	349	6	US-10-481-935A-208		Sequence 208, App		
19	56	20.6	7968	7	US-11-186-731-5		Sequence 5, App		
20	55.5	20.4	476	7	US-11-188-298-7774		Sequence 7774, App		
21	54.5	20.0	259	7	US-11-096-568A-6620		Sequence 6620, App		
22	54.5	20.0	263	7	US-11-096-568A-8497		Sequence 8497, App		
23	54.5	20.0	302	7	US-11-096-568A-8496		Sequence 8496, App		
24	54.5	20.0	307	7	US-11-096-568A-6619		Sequence 6619, App		
25	54.5	20.0	366	7	US-11-096-568A-6618		Sequence 6618, App		

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Query Match      52.0%; Score 141.5; DB 6; Length 900;
Best Local Similarity 56.6%; Pred. No. 3.4e-09;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1

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QY	2	NCQVSLPHPPRTHRLPKEMTVPEPAFAAELISRLKLEKLESPHSLEERLQ	54
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DB	400	NGRVLPHPHPIRTYRYPKVR-VEPOKFAEELIHRLEAVORTREABEKLEERLK	451


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RESULT 2
US-11-188-298-16414
; Sequence 16414, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al..
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 16414
; LENGTH: 213
; TYPE: PRT
; ORGANISM: Oryza sativa

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; NAME/KEY: misc_feature
; LOCATION: (1)..(431)
; OTHER INFORMATION: Ceres Seq. ID no. 12411436
US-11-096-568A-23143

Query Match          21.9%; Score 59.5; DB 7; Length 431;
Best Local Similarity 34.3%; Pred. No. 14; Mismatches 16; Indels 9; Gaps 2;
Matches 19; Conservative 11;

QY      6 SLPHPRTHRLPKEMTPVEPAFAAEILSRLEKLESLRH-----SLEERLQ 54
      :|||: :|||: :|||: :|||: :|||: :|||: :|||: :|||: :|||:
Db      356 ALNFFQEAETDPVLLPL---AFSKVSSRLLELQKEYKQKRGCTSETSGERLQ 407

RESULT 8
US-11-096-051-2
; Sequence 2, Application US/11096051
; Publication No. US20050244868A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: MacLachlan, Timothy K
; APPLICANT: Rastelli, Luca
; APPLICANT: Vernet, Corine
; APPLICANT: Ettenberg, Seth
; TITLE OF INVENTION: Ten-M3 Polypeptides and Polynucleotides and their Methods of Use
; FILE REFERENCE: Attorney Docket No. Cura 967
; CURRENT APPLICATION NUMBER: US/11/096,051
; CURRENT FILING DATE: 2005-03-30
; PRIOR APPLICATION NUMBER: 10/038,854
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 10/455,772
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/557,978
; PRIOR FILING DATE: 2004-03-30
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 2
; LENGTH: 2715
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-096-051-2

Query Match          21.9%; Score 59.5; DB 7; Length 2715;
Best Local Similarity 26.3%; Pred. No. 1.2e+02;
Matches 20; Conservative 9; Mismatches 18; Indels 29; Gaps 2;

QY      3 GOVSLPHPRTHRL-----PKEMTPVEPAFAAEILSRLEKLE- 42
      |||: |||: |||: |||: |||: |||: |||: |||: |||:
Db      178 GOSTLOPLPPSHKQHSQAHHPSITSLNRNSLTNRNQSPAPPALPAELQTTPEVQLQD 237

QY      43 -----LESRHSL 49
      |||||
Db      238 SWVLGSNVPLESRHFL 253

RESULT 9
US-11-113-424-51
; Sequence 51, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
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; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 2715
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-113-424-51

Query Match          21.9%; Score 59.5; DB 7; Length 2715;
Best Local Similarity 26.3%; Pred. No. 1.2e+02;
Matches 20; Conservative 9; Mismatches 18; Indels 29; Gaps 2;

QY      3 GOVSLPHPRTHRL-----PKEMTPVEPAFAAEILSRLEKLE- 42
      |||: |||: |||: |||: |||: |||: |||: |||: |||:
Db      178 GOSTLOPLPPSHKQHSQAHHPSITSLNRNSLTNRNQSPAPPALPAELQTTPEVQLQD 237

QY      43 -----LESRHSL 49
      |||||
Db      238 SWVLGSNVPLESRHFL 253

RESULT 10
US-11-096-051-10
; Sequence 10, Application US/11096051
; Publication No. US20050244868A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: MacLachlan, Timothy K
; APPLICANT: Rastelli, Luca
; APPLICANT: Vernet, Corine
; APPLICANT: Ettenberg, Seth
; TITLE OF INVENTION: Ten-M3 Polypeptides and Polynucleotides and their Methods of Use
; FILE REFERENCE: Attorney Docket No. Cura 967
; CURRENT APPLICATION NUMBER: US/11/096,051
; CURRENT FILING DATE: 2005-03-30
; PRIOR APPLICATION NUMBER: 10/038,854
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 10/455,772
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/557,978
; PRIOR FILING DATE: 2004-03-30
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 10
; LENGTH: 2721
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-096-051-10

Query Match          21.9%; Score 59.5; DB 7; Length 2721;
Best Local Similarity 26.3%; Pred. No. 1.2e+02;
Matches 20; Conservative 9; Mismatches 18; Indels 29; Gaps 2;

QY      3 GOVSLPHPRTHRL-----PKEMTPVEPAFAAEILSRLEKLE- 42
      |||: |||: |||: |||: |||: |||: |||: |||: |||:
Db      178 GOSTLOPLPPSHKQHSQAHHPSITSLNRNSLTNRNQSPAPPALPAELQTTPEVQLQD 237

QY      43 -----LESRHSL 49
      |||||
Db      238 SWVLGSNVPLESRHFL 253

RESULT 11
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US-11-096-051-8
; Sequence 8, Application US/11096051
; Publication No. US2005024486A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: MacLachlan, Timothy K
; APPLICANT: Rastelli, Luca
; APPLICANT: Vernet, Corine
; APPLICANT: Ettenberg, Seth
; TITLE OF INVENTION: Ten-M3 Polypeptides and Polynucleotides and their Methods of Use
; FILE REFERENCE: Attorney Docket No. Cura 967
; CURRENT APPLICATION NUMBER: US/11/096,051
; CURRENT FILING DATE: 2005-03-30
; PRIOR APPLICATION NUMBER: 10/038,854
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 10/455,772
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/557,978
; PRIOR FILING DATE: 2004-03-30
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 8
; LENGTH: 2725
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-096-051-8

Query Match 21.9%; Score 59.5; DB 7; Length 2725;
Best Local Similarity 26.3%; Pred. No. 1.2e+02;
Matches 20; Conservative 9; Mismatches 18; Indels 29; Gaps 2;
QY 3 GOVSLPHFPRTHL-----PKEMTPVEPAFAAEALISRLKLE- 42
DB 178 GQSTQLPSPHKQHSQAHPSTLSLNRSNLTNRNQSPAPPAALPAELQTTPEVQLQD 237
QY 43 -----LEGRHSL 49
DB 238 SWVLGSNVPLESRHFL 253

RESULT 12
US-11-121-438-4
; Sequence 4, Application US/11121438
; Publication No. US20060014173A1
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: PR/SET- Domain Containing Nucleic Acids,
; FILE REFERENCE: P-LJ 5301
; CURRENT APPLICATION NUMBER: US/11/121,438
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: US/10/200,012
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: US 09/910,478
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1061
; TYPE: PRT
; ORGANISM: Human
US-11-121-438-4

Query Match 21.5%; Score 58.5; DB 7; Length 1061;
Best Local Similarity 34.0%; Pred. No. 53;
Matches 16; Conservative 10; Mismatches 16; Indels 5; Gaps 2;
QY 4 QVSLPHFPRTHL---PKEMTPVEP--AAFAAEALISRLKLELES 45
DB 383 QSSLEHEPETHLHPQHEESVVPQTSLTADDMERAKRIRLELQN 429

RESULT 13

US-11-188-298-14078
; Sequence 14078, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 14078
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Aquifex aeolicus VF5
US-11-188-298-14078

Query Match 21.1%; Score 57.5; DB 7; Length 254;
Best Local Similarity 28.6%; Pred. No. 13;
Matches 16; Conservative 7; Mismatches 30; Indels 3; Gaps 1;

QY 2 NCQVSLPHF---PRTHLPKEMTPVEPAFAAEALISRLKLELESRHSLSERLQ 54
DB 183 NGVLFDPDMGTNPANHYLPQETRLNREFEFKHILKPDNPFLFVNRHHTSSKAQ 238

RESULT 14
US-11-121-419-2
; Sequence 2, Application US/11121419
; Publication No. US20050265985A1
; GENERAL INFORMATION:
; APPLICANT: CHODOSH, Lewis A
; APPLICANT: GARDNER, Heather P
; TITLE OF INVENTION: HORMONALLY UP-REGULATED, NEU-TUMOR-ASSOCIATED KINASE
; FILE REFERENCE: 22253-70421
; CURRENT APPLICATION NUMBER: US/11/121,419
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: US/10/032,256
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/257,073
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 714
; TYPE: PRT
; ORGANISM: Murinae gen. sp.
US-11-121-419-2

Query Match 21.0%; Score 57; DB 7; Length 714;
Best Local Similarity 33.3%; Pred. No. 50;
Matches 11; Conservative 10; Mismatches 12; Indels 0; Gaps 0;
QY 11 PRTHLPKEMTPVEPAFAAEALISRLKLEL 43
DB 526 PRTPRIVKLEHPQPGSASILPKPEPLLLDM 558

RESULT 15
US-11-079-463-5959
; Sequence 5959, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 20, 2006, 15:30:33 ; Search time 5.76517 Seconds
(without alignments)
989.497 Million cell updates/sec

Title: US-09-587-574-4
Perfect score: 360
Sequence: 1 QIREDEEKGSEQALSSRDG.....VLKTPCQSPGVGRYSPRSR 69

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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2: /cgn2_6/prodata/1/iaa/6 COMB.pcp.*
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4: /cgn2_6/prodata/1/iaa/PCITUS COMB.pcp.*
5: /cgn2_6/prodata/1/iaa/RE COMB.pcp.*
6: /cgn2_6/prodata/1/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	146	40.6	855	2	US-08-890-865A-10
2	139.5	38.8	992	2	US-08-890-865A-1
3	113.5	31.5	900	2	US-08-890-865A-4
4	72.5	20.1	1088	2	US-09-920-804-2
5	72.5	20.1	1129	2	US-09-734-674-2
6	72.5	20.1	1129	2	US-10-274-990-2
7	70	19.4	856	2	US-09-605-703B-2760
8	69.5	19.3	1034	2	US-10-104-047-2343
9	68.5	19.0	441	2	US-08-764-870-9
10	68.5	19.0	441	2	US-08-980-115-9
11	68.5	19.0	441	2	US-09-166-265-7
12	68.5	19.0	500	2	US-09-949-016-11597
13	67.5	18.8	595	2	US-09-252-991A-17434
14	66.5	18.5	441	2	US-09-976-594-1000
15	65	18.1	90	2	US-09-270-767-40580
16	65	18.1	90	2	US-09-270-767-55796
17	64	17.8	605	2	US-09-949-016-11347
18	64	17.8	878	2	US-09-902-540-11650
19	63.5	17.6	434	1	US-08-710-249-4
20	63.5	17.6	434	2	US-09-220-157A-4
21	62.5	17.4	1042	2	US-08-928-361B-11
22	62.5	17.4	1042	2	US-09-588-995A-11
23	62.5	17.4	1837	2	US-08-928-361B-5
24	62.5	17.4	1837	2	US-09-588-995A-5
25	62	17.2	348	2	US-08-415-655-5
26	62	17.2	348	2	US-08-415-655-13
27	62	17.2	348	2	US-08-415-655-15

28	62	17.2	409	2	US-10-332-795-17	Sequence 17, Appl
29	62	17.2	545	2	US-09-248-796A-15777	Sequence 15777, A
30	61.5	17.1	99	2	US-09-248-796A-22041	Sequence 22041, A
31	61.5	17.1	203	2	US-09-270-767-58525	Sequence 58525, A
32	61.5	17.1	313	2	US-09-270-767-43189	Sequence 43189, A
33	61	16.9	283	2	US-09-252-991A-17831	Sequence 17831, A
34	61	16.9	477	2	US-09-252-991A-15940	Sequence 15940, A
35	60.5	16.8	897	2	US-10-104-047-2474	Sequence 2474, Ap
36	59.5	16.5	1088	2	US-09-920-804-4	Sequence 4, Appli
37	59	16.4	360	2	US-09-252-991A-24897	Sequence 24897, A
38	59	16.4	485	2	US-09-252-991A-17141	Sequence 17141, A
39	59	16.4	837	2	US-09-489-039A-12646	Sequence 12646, A
40	59	16.4	1498	1	US-08-404-531B-29	Sequence 29, Appl
41	59	16.4	1498	2	US-08-476-900A-29	Sequence 29, Appl
42	59	16.4	1498	2	US-08-488-546A-29	Sequence 29, Appl
43	59	16.4	1582	1	US-08-404-531B-9	Sequence 9, Appli
44	59	16.4	1582	2	US-08-476-900A-9	Sequence 9, Appli
45	59	16.4	1582	2	US-08-476-900A-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1
US-08-890-865A-10
; Sequence 10, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 855 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-10

Query Match 40.6%; Score 146; DB 2; Length 855;
Best Local Similarity 34.7%; Pred. No. 1e-09;
Matches 35; Conservative 14; Mismatches 14; Indels 38; Gaps 4;

QY	3	REDEK-----EGSEQALSSRDGAPVQHPHLLALLPSG-----	33
DB	417	REAEKLEERLQVRAEEEGEDADISSGSPV-ISHK---MPSAQPHHPAPRYSEMGCG	472
QY	34	-----SYBEDPTILDDHLRLVLTGCGSPGVGRYSPRSR	69


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; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001018
; CURRENT APPLICATION NUMBER: US/09/734,674
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1129
; TYPE: PRT
; ORGANISM: Human
US-09-734-674-2

Query Match      20.1%; Score 72.5; DB 2; Length 1129;
Best Local Similarity 38.3%; Pred. No. 3.6;
Matches 18; Conservative 6; Mismatches 18; Indels 5; Gaps 2;

QY      4 EDEKEGSGQALSSRDGAPVQHPLALLPSGSYEEDPQTI-LDDHLGR 49
Db      1059 EDAKEEGQSLAMEDEGTVOLPL-----EGHYRDDPSVINISDEMSK 1101

RESULT 6
US-10-274-990-2
; Sequence 2, Application US/10274990
; Patent No. 6878808
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001018 Div
; CURRENT APPLICATION NUMBER: US/10/274,990
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/734,674
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1129
; TYPE: PRT
; ORGANISM: Human
US-10-274-990-2

Query Match      20.1%; Score 72.5; DB 2; Length 1129;
Best Local Similarity 38.3%; Pred. No. 3.6;
Matches 18; Conservative 6; Mismatches 18; Indels 5; Gaps 2;

QY      4 EDEKEGSGQALSSRDGAPVQHPLALLPSGSYEEDPQTI-LDDHLGR 49
Db      1059 EDAKEEGQSLAMEDEGTVOLPL-----EGHYRDDPSVINISDEMSK 1101

RESULT 7
US-09-605-703B-2760
; Sequence 2760, Application US/09605703B
; Patent No. 6962989
; GENERAL INFORMATION:
; APPLICANT: Pompeius, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL
; TITLE OF INVENTION: PROTEINS
; FILE REFERENCE: BGI-129CP
; CURRENT APPLICATION NUMBER: US/09/605,703B
; CURRENT FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: 60/142,764
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 60/152,318
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 2934
; SEQ ID NO 2760
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; LENGTH: 856
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-605-703B-2760

Query Match      19.4%; Score 70; DB 2; Length 856;
Best Local Similarity 36.8%; Pred. No. 5.2;
Matches 14; Conservative 6; Mismatches 12; Indels 6; Gaps 1;

QY      15 LSSRDGAPVQ-----HPLALLPSGSYEEDPQTI-LDDH 46
Db      94 LTDSGNPLQAGSSGTHPLAIVPQGEWVSPETLIDGH 131

RESULT 8
US-10-104-047-2343
; Sequence 2343, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 6943241el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2343
; LENGTH: 1034
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-2343

Query Match      19.3%; Score 69.5; DB 2; Length 1034;
Best Local Similarity 28.8%; Pred. No. 7.8;
Matches 23; Conservative 15; Mismatches 11; Indels 31; Gaps 5;

QY      2 IREDEE--KEGSEQ-----ALSS-----RDGAPVQHPLALLPSGSYEEDPQTI 42
Db      651 LKEEEKLMKEGSEKEKQPLEPTSLNSGCALANHAPALPCINPLSAL-----QSV 701

QY      43 LDDHLGRV---LKTQCQSP 59
Db      702 LNNHLKATEPLRSPSCSP 721

RESULT 9
US-08-764-870-9
; Sequence 9, Application US/08764870
; Patent No. 6236946
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S
; APPLICANT: Baxter, John D
; APPLICANT: Fletterick, Robert J
; APPLICANT: Wagner, Richard L
; APPLICANT: Kushner, Peter J
; APPLICANT: Apriletti, James W
; APPLICANT: West, Brian
; TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
; TITLE OF INVENTION: Binding Domains
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward
; STREET: Five Palo Alto Square, 3000 El Camino Real
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/764,870
; FILING DATE: 13-DEC-1996
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,540
; FILING DATE: 13-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,543
; FILING DATE: 13-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,606
; FILING DATE: 14-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Nakamura, Jackie N
; REGISTRATION NUMBER: 35,966
; REFERENCE/DOCKET NUMBER: UCAL-246/01US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 843-5000
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 441 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-764-870-9

Query Match 19.0%; Score 68.5; DB 2; Length 441;
Best Local Similarity 30.3%; Pred. No. 3.3;
Matches 23; Conservative 10; Mismatches 26; Indels 17; Gaps 4;

QY 1 QIREDEKEGSEQALSSRDGAPVQH--PLALLPSGSYEE-----DPQTILDDHLSRVLKT 53
DB 10 EVREEEKEEVAEA-----EGAPELNGGPOHALPSSSYTDLSSRSSPSSLDDQ-----LQ 59

QY 54 PGCQSPGVGRYSPRSR 69
DB 60 MGCDCGASCGSLNMECR 75

RESULT 10
US-08-980-115-9
; Sequence 9, Application US/08980115
; Patent No. 6286622
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S.
; APPLICANT: Baxter, John D.
; APPLICANT: Fletcher, Robert J.
; APPLICANT: Wagner, Richard L.
; APPLICANT: Kushner, Peter J.
; APPLICANT: Apriletti, James W.
; APPLICANT: West, Brian L.
; APPLICANT: Shiao, Andrew K.
; TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
; FILE REFERENCE: UCAL-246/02US
; CURRENT APPLICATION NUMBER: US/08/980,115
; CURRENT FILING DATE: 1997-11-26
; EARLIER APPLICATION NUMBER: 08/764,870
; EARLIER FILING DATE: 1996-12-13
; EARLIER APPLICATION NUMBER: 60/008,606
; EARLIER FILING DATE: 1995-12-14
; EARLIER APPLICATION NUMBER: 60/008,543
; EARLIER FILING DATE: 1995-12-13
; EARLIER APPLICATION NUMBER: 60/008,540
; EARLIER FILING DATE: 1995-12-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Homo sapiens
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; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (168)..(441)
; OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-9

Query Match 19.0%; Score 68.5; DB 2; Length 441;
Best Local Similarity 30.3%; Pred. No. 3.3;
Matches 23; Conservative 10; Mismatches 26; Indels 17; Gaps 4;

QY 1 QIREDEKEGSEQALSSRDGAPVQH--PLALLPSGSYEE-----DPQTILDDHLSRVLKT 53
DB 10 EVREEEKEEVAEA-----EGAPELNGGPOHALPSSSYTDLSSRSSPSSLDDQ-----LQ 59

QY 54 PGCQSPGVGRYSPRSR 69
DB 60 MGCDCGASCGSLNMECR 75

RESULT 11
US-09-166-265-7
; Sequence 7, Application US/09166265
; Patent No. 6689574
; GENERAL INFORMATION:
; APPLICANT: Cummings, Richard T.
; APPLICANT: Hermes, Jeffrey D.
; APPLICANT: Moller, David E.
; APPLICANT: Zhou, Gaochao
; TITLE OF INVENTION: ASSAYS FOR NUCLEAR RECEPTOR AGONISTS AND
; TITLE OF INVENTION: ANTAGONISTS USING FLUORESCENCE RESONANCE ENERGY TRANSFER
; FILE REFERENCE: 20017
; CURRENT APPLICATION NUMBER: US/09/166,265
; CURRENT FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-166-265-7

Query Match 19.0%; Score 68.5; DB 2; Length 441;
Best Local Similarity 30.3%; Pred. No. 3.3;
Matches 23; Conservative 10; Mismatches 26; Indels 17; Gaps 4;

QY 1 QIREDEKEGSEQALSSRDGAPVQH--PLALLPSGSYEE-----DPQTILDDHLSRVLKT 53
DB 10 EVREEEKEEVAEA-----EGAPELNGGPOHALPSSSYTDLSSRSSPSSLDDQ-----LQ 59

QY 54 PGCQSPGVGRYSPRSR 69
DB 60 MGCDCGASCGSLNMECR 75

RESULT 12
US-09-949-016-11597
; Sequence 11597, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
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; SEQ ID NO i1597
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11597

Query Match      19.0%; Score 68.5; DB 2; Length 500;
Best Local Similarity 30.3%; Pred. No. 3.9;
Matches 23; Conservative 10; Mismatches 26; Indels 17; Gaps 4;

QY 1 QIREDEKEGSEQALSSRDGAPVOH--PLALLPSGSVEE-----DPTILDDHLSRVLKT 53
Db 69 EVREEREKEEVAEA-----EGAPELNGGQHALPSSSYTDLSSSSPSPSLDQ-----LQ 118

QY 54 PGQSPGVGRYSPRSR 69
Db 119 MGCDGASCGSLNMECR 134

RESULT 13
US-09-252-991A-17434
; Sequence 17434, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17434
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17434

Query Match      18.8%; Score 67.5; DB 2; Length 595;
Best Local Similarity 38.3%; Pred. No. 6.6;
Matches 18; Conservative 6; Mismatches 22; Indels 1; Gaps 1;

QY 18 RDGAPVQHPLALLPSGSVEEDPTILD-DHLSRVLKTGCGSPGVGR 63
Db 539 RQAGYLRVPAGVPAGSPAEPAELDATHRALAHAPPPAAGPCR 585

RESULT 14
US-09-976-594-1000
; Sequence 1000, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PEEL Program
; SEQ ID NO 1000
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 678004CD1
US-09-976-594-1000
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Query Match      18.5%; Score 66.5; DB 2; Length 441;
Best Local Similarity 30.4%; Pred. No. 5.9;
Matches 24; Conservative 8; Mismatches 24; Indels 23; Gaps 4;

QY 1 QIREDEKEGSEQALSSRDGAPVOH--PLALLPSGSVEEDPTILDDHLSRVLKTTP----- 54
Db 10 EVREEREKEEVAEA-----EGAPELNGGQHALPSSSYTD-----LSRSSPPSRLD 56

QY 55 ----GCQSPGVGRYSPRSR 69
Db 57 QLMGCDGASCGSLNMECR 75

RESULT 15
US-09-270-767-40580
; Sequence 40580, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40580
; LENGTH: 90
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-40580

Query Match      18.1%; Score 65; DB 2; Length 90;
Best Local Similarity 28.3%; Pred. No. 1.1;
Matches 15; Conservative 10; Mismatches 28; Indels 0; Gaps 0;

QY 2 IREDEKEGSEQALSSRDGAPVQHPLALLPSGSVEEDPTILDDHLSRVLKTTP 54
Db 7 LRPKQKQGSNNHQLNNSKPSNSDSKISSGVENTSSATNGPHNSNTLPTP 59
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Search completed: April 20, 2006, 15:32:30
Job time : 6.76517 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.
OM protein - protein search, using sw model
Run on: April 20, 2006, 15:57:53 ; Search time 23.971 Seconds
(without alignments)
1202.714 Million cell updates/sec
Title: US-09-587-574-4
Perfect score: 360
Sequence: 1 QIREDEKEGSEQALSSRDG.....VLKTPCQSGVGRYSRPR 69
Scoring table: BLOSUM62
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Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
Database : Published Applications_AA_Main: *
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2: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep: *
3: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep: *
4: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep: *
5: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep: *
6: /cgn2_6/prodata/1/pubpaa/US11_PUBCOMB.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	332	92.2	843	5	US-10-723-860-1797
2	332	92.2	843	5	US-10-751-736-116
3	158	43.9	842	3	US-09-798-831-8
4	122	33.9	826	4	US-10-786-720-36
5	122	33.9	862	4	US-10-786-720-35
6	121.5	33.8	912	4	US-10-092-900A-270
7	113.5	31.5	900	4	US-10-374-979-91
8	113.5	31.5	900	4	US-10-182-938A-91
9	113.5	31.5	900	5	US-10-477-238A-670
10	113.5	31.5	900	5	US-10-680-287A-670
11	113.5	31.5	900	5	US-10-477-173-670
12	75	20.8	218	4	US-10-425-115-227845
13	75	20.8	1487	4	US-10-437-963-124794
14	73	20.3	175	4	US-10-425-115-227847
15	72.5	20.1	182	4	US-10-425-115-205230
16	72.5	20.1	593	4	US-10-425-114-56486
17	72.5	20.1	1088	3	US-09-920-804-2
18	72.5	20.1	1088	4	US-10-640-483-2
19	72.5	20.1	1129	3	US-09-734-674-2
20	72.5	20.1	1129	4	US-10-274-990-2
21	72.5	20.1	1129	6	US-11-061-825-2
22	72.5	20.1	1272	5	US-10-450-763-33467
23	71.5	19.9	307	4	US-10-425-115-244452
24	70	19.4	862	3	US-09-738-626-3956
25	70	19.4	862	5	US-10-494-672-308
26	69.5	19.3	128	4	US-10-425-115-262984
27	69.5	19.3	670	3	US-09-864-761-49062

28	69.5	19.3	1034	4	US-10-104-047-2343	Sequence 2343, Ap
29	69.5	19.3	1034	5	US-10-486-977-11	Sequence 11, Appl
30	68.5	19.0	441	4	US-10-467-048A-6	Sequence 6, Appl
31	68.5	19.0	441	5	US-10-690-880-39	Sequence 39, Appl
32	68	18.9	8601	5	US-10-496-377-7	Sequence 7, Appl
33	67.5	18.8	98	4	US-10-156-761-8261	Sequence 8261, Ap
34	67.5	18.8	359	4	US-10-425-115-352367	Sequence 352367,
35	67	18.6	126	4	US-10-437-963-110790	Sequence 110790,
36	67	18.6	240	5	US-10-450-763-38371	Sequence 38371, A
37	67	18.6	270	4	US-10-767-701-38282	Sequence 38282, A
38	67	18.6	496	4	US-10-425-115-276008	Sequence 276008,
39	67	18.6	1449	4	US-10-437-963-184496	Sequence 184496,
40	66.5	18.5	1568	5	US-10-450-763-33468	Sequence 33468, A
41	66	18.3	563	4	US-10-369-493-975	Sequence 975, App
42	65	18.1	95	4	US-10-425-115-270243	Sequence 270243,
43	65	18.1	303	4	US-10-156-761-8055	Sequence 8055, Ap
44	65	18.1	748	6	US-11-097-143-14535	Sequence 14535, A
45	65	18.1	795	4	US-10-437-963-118666	Sequence 118666,

ALIGNMENTS

RESULT 1
US-10-723-860-1797
; Sequence 1797, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10/723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1797
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-723-860-1797

Query Match	92.2%	Score	332	DB 5	Length	843			
Best Local Similarity	89.9%	Pred. No.	5.3e-30						
Matches	62	Conservative	4	Mismatches	3	Indels	0	Gaps	0
QY	1	QIREDEKEGSEQALSSRDGAPVOHPLALLPSGSVEEDPQTILDDHLSRLVLTGQCSPG	60						
Db	397	QIREDEKEGSELTNSREGAPTQHPLSLPSGSVEEDPQTILDDHLSRLVLTGQCSPG	456						
QY	61	VGRYSRPR	69						
Db	457	VGRYSRPR	465						

RESULT 2
US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06

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; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-10-751-736-116

Query Match          92.2%; Score 332; DB 5; Length 843;
Best Local Similarity 89.9%; Pred. No. 5.3e-30;
Matches 62; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 QIREDEKEGSEQALSSRDGAPVQHPLALPSGYEEDPOTILDDHLSRVLTGPGCSPG 60
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 397 QIREDEEREGSELTLNSREGAPQHPLALPSGYEEDPOTILDDHLSRVLTGPGCSPG 456

QY 61 VGRYSRPSR 69
    |||||:|||||
DB 457 VGRYSRPSR 465

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RESULT 3
US-09-798-831-8
; Sequence 8, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-798-831-8

Query Match          43.9%; Score 158; DB 3; Length 842;
Best Local Similarity 40.0%; Pred. No. 1.8e-09;
Matches 34; Conservative 14; Mismatches 11; Indels 26; Gaps 3;

QY 7 EKEGSEQALSSRDGAPVQHPLALPSG-----SYEEDPQTILD 44
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 419 EKEGDDGDSGSGSV-ISHK---LPSGPPMHFNRSYSETCCVGMQIRDAHEENPESILD 474

QY 45 DHLRSVLKTPGCGSPGVGRYSRPSR 69
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 475 EHVQVVMKTPGCGSPGTRGHRSPKSR 499

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RESULT 4
US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2

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; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match          33.9%; Score 122; DB 4; Length 826;
Best Local Similarity 35.8%; Pred. No. 3.1e-05;
Matches 34; Conservative 10; Mismatches 21; Indels 30; Gaps 3;

QY 3 REDEEK-----EGSEQALSSRDGAPVQHPLALPS-----G 33
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 403 RRAEEXLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHHFPPRCVDMGCAGLRD 461

QY 34 SYEEDPQTILDDHLSRVLTGPGCSPGVGRYSRPS 68
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 462 AHEENPESILDEHVQVRLTPGQSPGPHRSPDS 496

RESULT 5
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match          33.9%; Score 122; DB 4; Length 862;
Best Local Similarity 35.8%; Pred. No. 3.3e-05;
Matches 34; Conservative 10; Mismatches 21; Indels 30; Gaps 3;

QY 3 REDEEK-----EGSEQALSSRDGAPVQHPLALPS-----G 33
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 403 RRAEEXLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHHFPPRCVDMGCAGLRD 461

QY 34 SYEEDPQTILDDHLSRVLTGPGCSPGVGRYSRPS 68
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
DB 462 AHEENPESILDEHVQVRLTPGQSPGPHRSPDS 496

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RESULT 6
US-10-092-900A-270
; Sequence 270, Application US/10092900A
; Publication No. US20040043382A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Taupier Jr., Raymond J.
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Li, Li
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Ji, Weizhen
; APPLICANT: Gorman, Linda
; APPLICANT: Miller, Charles E.
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gangolli, Esha A.
; APPLICANT: Vernet, Corine A.M.

```

RESULT 9

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US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match 31.5%; Score 113.5; DB 5; Length 900;
Best Local Similarity 34.4%; Pred. No. 0.00035;
Matches 33; Conservative 10; Mismatches 22; Indels 31; Gaps 3;

Qy 3 REDEEK-----EGSEQALSSRDGAPVQHPLALLPS----- 32
Db 440 REAEKLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHPPRLCWTWACAGLR 498
Qy 33 GSYEEDPQTILDHLSRVLTGCGQSPGVGRYSPRS 68
Db 499 DAHEENPESILDEHVQVRLTTGRQSPGPGHRSPTS 534

RESULT 10
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match 31.5%; Score 113.5; DB 5; Length 900;
Best Local Similarity 34.4%; Pred. No. 0.00035;
Matches 33; Conservative 10; Mismatches 22; Indels 31; Gaps 3;

Qy 3 REDEEK-----EGSEQALSSRDGAPVQHPLALLPS----- 32
Db 440 REAEKLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHPPRLCWTWACAGLR 498
Qy 33 GSYEEDPQTILDHLSRVLTGCGQSPGVGRYSPRS 68
Db 499 DAHEENPESILDEHVQVRLTTGRQSPGPGHRSPTS 534

RESULT 12
US-10-425-115-227845
; Sequence 227845, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 227845
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Best Local Similarity 34.4%; Pred. No. 0.00035;
Matches 33; Conservative 10; Mismatches 22; Indels 31; Gaps 3;

Qy 3 REDEEK-----EGSEQALSSRDGAPVQHPLALLPS----- 32
Db 440 REAEKLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHPPRLCWTWACAGLR 498
Qy 33 GSYEEDPQTILDHLSRVLTGCGQSPGVGRYSPRS 68
Db 499 DAHEENPESILDEHVQVRLTTGRQSPGPGHRSPTS 534

RESULT 11
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match 31.5%; Score 113.5; DB 5; Length 900;
Best Local Similarity 34.4%; Pred. No. 0.00035;
Matches 33; Conservative 10; Mismatches 22; Indels 31; Gaps 3;

Qy 3 REDEEK-----EGSEQALSSRDGAPVQHPLALLPS----- 32
Db 440 REAEKLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHPPRLCWTWACAGLR 498
Qy 33 GSYEEDPQTILDHLSRVLTGCGQSPGVGRYSPRS 68
Db 499 DAHEENPESILDEHVQVRLTTGRQSPGPGHRSPTS 534

RESULT 12
US-10-425-115-227845
; Sequence 227845, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 227845
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Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	113.5	31.5	900	6	US-10-501-035-215	Sequence 215, App
2	69.5	19.3	1034	7	US-11-075-512-2343	Sequence 2343, App
3	65	18.1	257	7	US-11-096-568A-20103	Sequence 20103, App
4	65	18.1	293	7	US-11-096-568A-20102	Sequence 20102, App
5	65	18.1	300	7	US-11-096-568A-20101	Sequence 20101, App
6	63.5	17.6	208	7	US-11-188-238-6198	Sequence 6198, App
7	63.5	17.6	235	7	US-11-188-238-11473	Sequence 11473, App
8	63.5	17.6	306	6	US-10-330-773-901	Sequence 901, App
9	62.5	17.4	352	7	US-11-188-238-5344	Sequence 5344, App
10	62.5	17.4	352	7	US-11-188-238-5924	Sequence 5924, App
11	61.5	17.1	166	7	US-11-188-238-2268	Sequence 2268, App
12	61.5	17.1	958	6	US-10-204-639-84	Sequence 84, App
13	61	16.9	681	7	US-11-079-463-6507	Sequence 6507, App
14	61	16.9	897	7	US-11-072-512-2474	Sequence 2474, App
15	60.5	16.8	593	7	US-11-040-488-2	Sequence 2, App
16	60	16.7	671	7	US-11-098-686-11072	Sequence 11072, App
17	59.5	16.7	149	7	US-11-188-238-3668	Sequence 3668, App
18	59	16.4	334	7	US-11-087-099-11034	Sequence 11034, App
19	59	16.4	765	7	US-11-188-238-17930	Sequence 17930, App
20	58.5	16.2	119	7	US-11-188-238-1960	Sequence 1960, App
21	58.5	16.2	184	6	US-10-981-873-60	Sequence 60, App
22	58.5	16.2	264	7	US-11-096-568A-11937	Sequence 11937, App
23	58	16.1	219	7	US-11-096-568A-12944	Sequence 12944, App
24	58	16.1	235	7	US-11-096-568A-12943	Sequence 12943, App
25	58	16.1	296	6	US-10-467-657-2944	Sequence 2944, App


```
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOUYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2343
; LENGTH: 1034
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2343

Query Match 19.1%; Score 69.5; DB 7; Length 1034;
Best Local Similarity 28.8%; Pred. No. 4;
Matches 23; Conservative 15; Mismatches 11; Indels 31; Gaps 5;

QY 2 IREDER--KEGSRQ-----ALSS-----RDGAPVQHPLALLPSGYSYEDPQTI 42
   :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: |||||
Db 651 LKEEKLMEKSEKEXEPQPLEPPTSALSGCALNHAPALPCINPLSAL-----QSV 701

QY 43 LDHLSRV---LTPGCQSP 59
   :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: |||||
Db 702 LNNHLGKATEPLRSPSCSP 721

RESULT 3
US-11-096-568A-20103
; Sequence 20103, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20103
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(257)
; OTHER INFORMATION: Ceres Seq. ID no. 12376900
US-11-096-568A-20103

Query Match 18.1%; Score 65; DB 7; Length 257;
Best Local Similarity 44.2%; Pred. No. 2.4;
Matches 19; Conservative 2; Mismatches 8; Indels 14; Gaps 3;

QY 22 PVQHPLALLPS-----GSYED-----PQTILDDHLSRVLTKTP 54
   :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: |||||
Db 12 PGRHP----PSSYQQNGSYESDDRECTPHRIHDDILDLSILKTP 50

RESULT 4
US-11-096-568A-20102
; Sequence 20102, Application US/11096568A
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; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptide
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20102
; LENGTH: 293
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(293)
; OTHER INFORMATION: Ceres Seq. ID no. 12376899
US-11-096-568A-20102

Query Match 18.1%; Score 65; DB 7; Length 293;
Best Local Similarity 44.2%; Pred. No. 2.8;
Matches 19; Conservative 2; Mismatches 8; Indels 14; Gaps 3;

QY 22 PVQHPLALLPS-----GSYED-----PQTILDDHLSRVLTKTP 54
   :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: |||||
Db 48 PGRHP----PSSYQQNGSYESDDRECTPHRIHDDILDLSILKTP 86

RESULT 5
US-11-096-568A-20101
; Sequence 20101, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptide
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20101
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(300)
; OTHER INFORMATION: Ceres Seq. ID no. 12376898
US-11-096-568A-20101

Query Match 18.1%; Score 65; DB 7; Length 300;
Best Local Similarity 44.2%; Pred. No. 2.9;
Matches 19; Conservative 2; Mismatches 8; Indels 14; Gaps 3;

QY 22 PVQHPLALLPS-----GSYED-----PQTILDDHLSRVLTKTP 54
   :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: ||||| :||: |||||
Db 55 PGRHP----PSSYQQNGSYESDDRECTPHRIHDDILDLSILKTP 93

RESULT 6
US-11-188-298-6198
; Sequence 6198, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 6198
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Best Local Similarity 32.7%; Pred. NO. 3.7;
Matches 17; Conservative 9; Mismatches 19; Indels 7; Gaps 2;

Qy 21 APVQHPLA---LPSGS---YEEDPQTILDDHLSRVLTGPGCQSPGVGRYS 65
|| : ||| : || ||| : || ||| : ||| : ||| : ||| :
Db 31 APPSPRALARPMWASGD SKPRSEEWRAVLTP EOFRIIRUKGTLPGLTGEYN 82

RESULT 12

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US-10-204-639-64
; Sequence 64, Application US/10204639
; Publication No. US20060063152A1
; GENERAL INFORMATION:
; APPLICANT: Oeamu Ohara
; APPLICANT: Takahiro Nagase
; APPLICANT: Daisuke Nakajima
; TITLE OF INVENTION: NOVEL GENE AND PROTEIN ENCODED BY THE GENE
; FILE REFERENCE: PH-1416-PCT
; CURRENT APPLICATION NUMBER: US/10/204,639
; CURRENT FILING DATE: 2002-08-22
; PRIOR APPLICATION NUMBER: JP 2000-389742
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: JP 2001-095524
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: JP 2001-127066
; PRIOR FILING DATE: 2001-04-25
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 64
; LENGTH: 958
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-204-639-64

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Query Match	17.1%;	Score 61.5;	DB 6;	Length 958;
Best Local Similarity	37.3%;	Pred. No. 34;		
Matches	25; Conservative	8; Mismatches	27; Indels	

QY 6 EEKEGSEQALSSRDGAPVQHPL-----ALLPSGSYEEDPOTILDDHLSRVLKTGQCSPG 60

Db 792 ETNKGINGALSSRAEPPSPVPKASGSLNSGS-GNCPRTOSDDSEERSLETI-CANHIN 849

61 VGRYSR 67

Db 850 NGR LHPR 856

RESULT 13

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US-11-079-463-6507
; Sequence 6507, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRAGILIS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6507
; LENGTH: 681
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6507

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Query Match	Score 61:	DB '7:	Length 681:
16.9%			

Query Match	10.5%	Pred. No. 25	27: Indels
Best Local Similarity	34.5%	Pred. No. 26;	2: Gaps
Matches	19: Conservative	7: Mismatches	

QY

13 QALSSRDGAPVQHPLA-LLPSGSYEEDPQTILDD-HLSRVLKTPGCQCSPGVGRYS 65
:
:
:

pB

123 RALOTLPGAOLGESGRLLVRGGNSNETQTYIDGMHVLNPNPTTTGTDTTPARGYS 179
:
:
:

RESULT 14

US-11-072-512-2474
; Sequence 2474, Application US/11072512
; Publication No. US20060029945A1

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: GENERAL INFORMATION:
: APPLICANT: ISOGAI, TAKAO
: APPLICANT: SUGIYAMA, TOMOYASU
: APPLICANT: OTSUKI, TETSUJI
: APPLICANT: WAKAMATSU, AI
: APPLICANT: SATO, HIROYUKI
: APPLICANT: ISHII, SHIZUKU
: APPLICANT: YAMAMOTO, JUN-ICHI
: APPLICANT: YANO, YUUKO
: APPLICANT: HIO, YURI
: APPLICANT: OTSUKA, KAORU
: APPLICANT: NAGAI, KEIICHI
: APPLICANT: IRIE, RYOTARO
: APPLICANT: TAMECHIKA, ICHIRO
: APPLICANT: SEKI, NAOHIKO
: APPLICANT: YOSHIKAWA, TSUTOMU
: APPLICANT: OTSUKA, MOTYUKI
: APPLICANT: NAGAHARI, KENJI
: APPLICANT: MASUHO, YASUHIKO
: TITLE OF INVENTION: Novel full
: FILE REFERENCE: 084335-0191
: CURRENT APPLICATION NUMBER: US
: PRIOR FILING DATE: 2005-03-03
: PRIOR APPLICATION NUMBER: US 6
: PRIOR FILING DATE: 2002-01-25
: PRIOR APPLICATION NUMBER: JP 2
: PRIOR FILING DATE: 2001-11-05
: NUMBER OF SEQ ID NOS: 4096
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 2474
: LENGTH: 897
: TYPE: PRT
: ORGANISM: Homo sapiens

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Query Match

Query Match 10.3%; Score 51, 55, 7, Length 337;
Best Local Similarity 33.3%; Pred. No. 36;
Matches 23; Conservative 13; Mismatches 23; Indels 10; Gaps 5;

QY	1	QIREDEEKEGSE----	QALSSRDGAPVQHPLA-	LLPGSSEYEDPQTILDDHL	SRVLKTPGC	56
		: : : : :	: : : : :	: : : : :	: : : : :	
DB	150	PIRGEORHGAAPCTSI	STRKSNKNDSSVADLAPK	GKSDPAP----	PEL-SVLKBPB-	403

57 OSPGVGRYS 65

		:	:	:	412
n6	404	MSKGGKGXYS			

RESULT 15

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1  RESULT 13
2  US-11-040-488-2
3  ; Sequence 2, Application US/11040488
4  ; Publication No. US20050271651A1
5  ; GENERAL INFORMATION:
6  ; APPLICANT: WEBB, CAROL
7  ; TITLE OF INVENTION: INHIBITION OF BRIGHT FUNCTION AS A TREATMENT FOR
8  ; TITLE OF INVENTION: EXCESSIVE IMMUNOGLOBULIN PRODUCTION
9  ; FILE REFERENCE: OMRP:0230US
10 ; CURRENT APPLICATION NUMBER: US/11/040,488
11 ; CURRENT FILING DATE: 2005-01-21
12 ; PRIOR APPLICATION NUMBER: 60/538,866
13 ; PRIOR FILING DATE: 2004-01-23
14 ; NUMBER OF SEQ ID NOS: 26
15 ; SOFTWARE: PatentIn Ver. 2.1
16 ; SEQ ID NO 2

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; LENGTH: 593
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-040-488-2

Query Match      16.8%; Score 60.5; DB 7; Length 593;
Best Local Similarity 36.4%; Pred. No. 25;
Matches 24; Conservative 6; Mismatches 25; Indels 11; Gaps 4;

QY      4 EDEEKEGSEQALSSRDGAPVQHPL---ALLPSGSEEDPQTILDDHLSRVLKTGQCSPG 60
Db      148 EDEEEDEEGL-----GPECPASLCTTALFPRKA--QPQAFRGDGVPRVL--GGQEREG 199

QY      61 VGRYSP 66
Db      200 PGPAHP 205

Search completed: April 20, 2006, 16:07:53
Job time : 3.82322 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 20, 2006, 15:30:33 ; Search time 4.26121 Seconds
(without alignments)
989.497 Million cell updates/sec

Title: US-09-587-574-5
Perfect score: 276
Sequence: 1 LTGLHFKQLSKGNRYRFF.....VFEEINDETVLPWYEGRIIL 51

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents AA:
1: /cgn2_6/ptodata/1/iaa/5_COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	197	71.4	855	2	US-08-890-865A-10
2	191	69.2	900	2	US-08-890-865A-4
3	190	68.8	51	2	US-08-890-865A-23
4	190	68.8	992	2	US-08-890-865A-1
5	109.5	39.7	50	2	US-08-890-865A-22
6	109.5	39.7	623	2	US-10-464-939-12
7	102	37.0	49	2	US-08-890-865A-21
8	102	37.0	738	2	US-09-949-016-10957
9	95.5	34.6	716	2	US-09-949-016-6495
10	95	34.4	51	2	US-08-890-865A-20
11	85	30.8	313	2	US-09-270-767-43189
12	61	22.1	601	2	US-09-398-395A-42
13	61	22.1	601	2	US-09-887-586A-42
14	61	22.1	601	2	US-09-895-752-42
15	61	22.1	601	2	US-09-903-012B-42
16	61	22.1	601	2	US-09-900-797-42
17	61	22.1	601	2	US-09-893-820-42
18	56.5	20.5	1018	2	US-09-206-551-46
19	55.5	20.1	366	2	US-09-270-767-48144
20	55	19.9	286	2	US-09-270-767-41740
21	55	19.9	480	2	US-09-248-796A-14579
22	55	19.9	1055	1	US-08-659-251-5
23	55	19.9	1055	2	US-09-256-490-5
24	55	19.9	1055	4	PCT-US96-11445-5
25	54.5	19.7	187	2	US-09-347-878-28
26	54.5	19.7	376	2	US-09-328-352-7587
27	54.5	19.7	566	1	US-08-415-823-4

28	54.5	19.7	566	1	US-09-086-662-4	Sequence 4, Appli
29	54.5	19.7	1016	2	US-09-625-972-24	Sequence 24, Appli
30	53	19.2	309	1	US-08-465-167A-24	Sequence 24, Appli
31	53	19.2	309	1	US-08-993-118-10	Sequence 10, Appli
32	53	19.2	309	2	US-08-845-528C-10	Sequence 24, Appli
33	53	19.2	309	2	US-08-627-820-24	Sequence 24, Appli
34	53	19.2	309	2	US-09-066-281B-10	Sequence 10, Appli
35	53	19.2	309	2	US-09-468-433C-10	Sequence 10, Appli
36	53	19.2	309	2	US-09-392-714-29	Sequence 29, Appli
37	53	19.2	309	2	US-09-949-016-6574	Sequence 6574, Ap
38	53	19.2	355	2	US-09-949-016-8559	Sequence 8559, Ap
39	53	19.2	1332	1	US-08-971-244-2	Sequence 2, Appli
40	53	19.2	1332	2	US-09-286-891-2	Sequence 2, Appli
41	52.5	19.0	158	2	US-09-206-551-56	Sequence 56, Appli
42	52.5	19.0	329	2	US-08-981-527A-8	Sequence 8, Appli
43	52.5	19.0	329	2	US-10-147-936B-8	Sequence 8, Appli
44	52.5	19.0	477	1	US-08-432-016-3	Sequence 3, Appli
45	52.5	19.0	477	1	US-08-684-594-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-08-890-865A-10
; Sequence 10, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 855 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-10

Query Match 71.4%; Score 197; DB 2; Length 855;

Best Local Similarity 66.7%; Pred. No. 4.4e-19;

Matches 34; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

Qy 1 LTGLHFKQLSKGNRYRFFKASDFACGAVFEEINWDETVLPWYEGRIIL 51

Db 798 VTGLGQFKELLTKGNRYRFFKVSDFDCGWFEEVREDDTILPIFEKII 848

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RESULT 2
US-08-890-865A-4
; Sequence 4, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23.
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-4
;
Query Match 59.2%; Score 191; DB 2; Length 900;
Best Local Similarity 66.7%; Pred. No. 3.3e-18;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

Qy 1 LTGLHFKKQSLKGNVRYFKKASDFACGAVFEEIWDDETLPVMEGRIL 51
Db 843 VTLLGQFKELLTKGSRYYFKKVSDFDCGVVFEVREDEAVLPVFEKII 893

RESULT 3
US-08-890-865A-23
; Sequence 23, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 992 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-1
;
Query Match 68.8%; Score 190; DB 2; Length 992;
Best Local Similarity 66.7%; Pred. No. 5.1e-18;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

Qy 1 LTGLHFKKQSLKGNVRYFKKASDFACGAVFEEIWDDETLPVMEGRIL 51
Db 1 VTLLGQFKELLTKGSRYYFKKVSDFDCGVVFEVREDEAVLPVFEKII 51

RESULT 4
US-08-890-865A-1
; Sequence 1, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-23
;
Query Match 68.8%; Score 190; DB 2; Length 51;
Best Local Similarity 66.7%; Pred. No. 1.4e-19;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

Qy 1 LTGLHFKKQSLKGNVRYFKKASDFACGAVFEEIWDDETLPVMEGRIL 51
Db 1 VTLLGQFKELLTKGSRYYFKKVSDFDCGVVFEVREDEAVLPVFEKII 51
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DB 935 VTGQPKELLTKGSRYYFKVSDBFDCGWFEVREDEPVLVPVEEKII 985

RESULT 5
US-08-890-865A-22
Query Match 39.7%; Score 109.5; DB 2; Length 50;
Best Local Similarity 46.2%; Pred. No. 3.3e-08;
Matches 24; Conservative 10; Mismatches 15; Indels 3; Gaps 2;
GENERAL INFORMATION:
APPLICANT: Sun, Tian-Qiang
TITLE OF INVENTION: Isolated dishevelled associated kinases,
TITLE OF INVENTION: polynucleotides encoding the kinases, and methods of use
FILE REFERENCE: UCSF-133CON
CURRENT APPLICATION NUMBER: US/10/464,939
PRIOR FILING DATE: 2003-06-18
PRIOR APPLICATION NUMBER: 09/661,965
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/158,021
PRIOR FILING DATE: 1999-10-06
NUMBER OF SEQ ID NOS: 14
SOFTWARE: FastSeq for Windows Version 4.0

QY 1 LTLGHFKQLSKK-GNYRYFFKASDEFACGAVFEIWDDETLPVMEGRIL 51
DB 1 VTLDKFLVNLKNNKYFFKSMQDADF--GVVKEIADDSITLPCFNGRVV 50

RESULT 6
US-10-464-939-12
Query Match 39.7%; Score 109.5; DB 2; Length 50;
Best Local Similarity 46.2%; Pred. No. 3.3e-08;
Matches 24; Conservative 10; Mismatches 15; Indels 3; Gaps 2;
GENERAL INFORMATION:
APPLICANT: Sun, Tian-Qiang
TITLE OF INVENTION: Isolated dishevelled associated kinases,
TITLE OF INVENTION: polynucleotides encoding the kinases, and methods of use
FILE REFERENCE: UCSF-133CON
CURRENT APPLICATION NUMBER: US/10/464,939
PRIOR FILING DATE: 2003-06-18
PRIOR APPLICATION NUMBER: 09/661,965
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/158,021
PRIOR FILING DATE: 1999-10-06
NUMBER OF SEQ ID NOS: 14
SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 12
LENGTH: 623
TYPE: PRT
ORGANISM: Homo sapiens
US-10-464-939-12

Query Match 39.7%; Score 109.5; DB 2; Length 623;
Best Local Similarity 46.2%; Pred. No. 7.1e-07;
Matches 24; Conservative 10; Mismatches 15; Indels 3; Gaps 2;
GENERAL INFORMATION:
APPLICANT: Constantini, Franklin
TITLE OF INVENTION: AXIN GENE AND USES THEREOF
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: US
ZIP: 10036

QY 1 LTLGHFKQLSKK-GNYRYFFKASDEFACGAVFEIWDDETLPVMEGRIL 51
DB 35 VTLDKFLVNLKNNKYFFKSMQDADF--GVVKEIADDSITLPCFNGRVV 84

RESULT 7
US-08-890-865A-21
Query Match 39.7%; Score 109.5; DB 2; Length 623;
Best Local Similarity 46.2%; Pred. No. 7.1e-07;
Matches 24; Conservative 10; Mismatches 15; Indels 3; Gaps 2;
GENERAL INFORMATION:
APPLICANT: Constantini, Franklin
TITLE OF INVENTION: AXIN GENE AND USES THEREOF
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: US
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/890,865A
FILING DATE: 10-JUL-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 0575/54249
TELEPHONE: (212)278-0400
TELEFAX: (212)391-0526
INFORMATION FOR SEQ ID NO: 21:
LENGTH: 49 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-08-890-865A-21

QY 1 LTLGHFKQLSKK-GNYRYFFKASDEFACGAVFEIWDDETLPVMEGRIL 51
DB 1 ITLGDVSKVLPQAGAKYFFKSMQDADF--GVVKEIADDSITLPCFNGRVV 49

RESULT 8
US-09-949-016-10957
Query Match 37.0%; Score 102; DB 2; Length 49;
Best Local Similarity 41.2%; Pred. No. 3.7e-07;
Matches 21; Conservative 8; Mismatches 20; Indels 2; Gaps 1;
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

```

; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-20

Query Match 34.4%; Score 95; DB 2; Length 51;
Best Local Similarity 39.8%; Pred.No. 3.8e-06;
Matches 21; Conservative 10; Mismatches 18; Indels 4; Gaps 2;

Qy 1 LTLGHFKEQLSKK--GNRYRYFKASDEFACGAVFEEIWDDEVTLPMYEGRIL 51
   ||| ||| ||| :|::||| :|::||| ||| ||| ||| :|::
Db 1 VTLADFQVLSNRPVHAYKFFPKSMDQDF--GVVKEEIFDDNAKLPCFNGRVV 51

RESULT 11
US-09-270-767-43189
; Sequence 43189, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 43189
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-270-767-43189

Query Match 30.8%; Score 85; DB 2; Length 313;
Best Local Similarity 33.3%; Pred.No. 0.0009;
Matches 15; Conservative 14; Mismatches 16; Indels 0; Gaps 0;

Qy 2 TLGHFKEQLSKGNRYRYFKASDEFACGAVFEEIWDDEVTLPMY 46
   ||| ||| :|::||| :|::||| ||| ||| ||| :|::
Db 257 TLRFQKDYLPRRGHFFRFFKTHCEDPSPIQBEIVNDSIDILPLF 301

RESULT 12
US-09-398-395A-42
; Sequence 42, Application US/09398395A
; Patent No. 6468772
; GENERAL INFORMATION:
; APPLICANT: Chappell, Joseph
; APPLICANT: No. 64687721, Joseph P.
; APPLICANT: Starks, Courtney M.
; APPLICANT: Manna, Kathleen R.

```



```

; TITLE OF INVENTION: SYNTHASES
; FILE REFERENCE: 07678-025001
; CURRENT APPLICATION NUMBER: US/09/398,395A
; CURRENT FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: 60/100,993
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/130,628
; PRIOR FILING DATE: 1999-04-22
; PRIOR APPLICATION NUMBER: 60/150,262
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 601
; TYPE: PRT
; ORGANISM: Ricinus communis
US-09-398-395A-42

Query Match      22.1%; Score 61; DB 2; Length 601;
Best Local Similarity 29.2%; Pred. No. 5;
Matches 14; Conservative 12; Mismatches 20; Indels 2; Gaps 2;

QY      2 TLGHFKEQLSKKG-NYRY-YFKKASDEFACGAVFEEIWDDETVPME 47
DB      399 TFSEFEKELTAGKSYSVKYGREAPQELVRGYLYLEAVWRDEGKIPSF 446

RESULT 13
US-09-887-586A-42
; Sequence 42, Application US/09887586A
; Patent No. 6495354
; GENERAL INFORMATION:
; APPLICANT: Chappell, Joseph
; APPLICANT: No. 64953541, Joseph P.
; APPLICANT: Starks, Courtney M.
; APPLICANT: Manna, Kathleen R.
; TITLE OF INVENTION: SYNTHASES
; FILE REFERENCE: 07678-025001
; CURRENT APPLICATION NUMBER: US/09/887,586A
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 09/398,395
; PRIOR FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: 60/130,628
; PRIOR FILING DATE: 1999-04-22
; PRIOR APPLICATION NUMBER: 60/150,262
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 601
; TYPE: PRT
; ORGANISM: Ricinus communis
US-09-887-586A-42

Query Match      22.1%; Score 61; DB 2; Length 601;
Best Local Similarity 29.2%; Pred. No. 5;
Matches 14; Conservative 12; Mismatches 20; Indels 2; Gaps 2;

QY      2 TLGHFKEQLSKKG-NYRY-YFKKASDEFACGAVFEEIWDDETVPME 47
DB      399 TFSEFEKELTAGKSYSVKYGREAPQELVRGYLYLEAVWRDEGKIPSF 446

RESULT 14
US-09-895-752-42
; Sequence 42, Application US/09895752
; Patent No. 6559297
; GENERAL INFORMATION:
; APPLICANT: Chappell, Joseph
; APPLICANT: No. 65592971, Joseph P.
; APPLICANT: Starks, Courtney M.
; APPLICANT: Manna, Kathleen R.
; TITLE OF INVENTION: SYNTHASES

```

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; FILE REFERENCE: 07678-025001
; CURRENT APPLICATION NUMBER: US/09/895,752
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 09/398,395
; PRIOR FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: 60/100,993
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/130,628
; PRIOR FILING DATE: 1999-04-22
; PRIOR APPLICATION NUMBER: 60/150,262
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 601
; TYPE: PRT
; ORGANISM: Ricinus communis
US-09-895-752-42

Query Match      22.1%; Score 61; DB 2; Length 601;
Best Local Similarity 29.2%; Pred. No. 5;
Matches 14; Conservative 12; Mismatches 20; Indels 2; Gaps 2;

QY      2 TLGHFKEQLSKKG-NYRY-YFKKASDEFACGAVFEEIWDDETVPME 47
DB      399 TFSEFEKELTAGKSYSVKYGREAPQELVRGYLYLEAVWRDEGKIPSF 446

RESULT 15
US-09-903-012B-42
; Sequence 42, Application US/09903012B
; Patent No. 6569656
; GENERAL INFORMATION:
; APPLICANT: Chappell, Joseph
; APPLICANT: No. 65696561, Joseph P.
; APPLICANT: Starks, Courtney M.
; APPLICANT: Manna, Kathleen R.
; TITLE OF INVENTION: SYNTHASES
; FILE REFERENCE: 07678-025001
; CURRENT APPLICATION NUMBER: US/09/903,012B
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 60/100,993
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/130,628
; PRIOR FILING DATE: 1999-04-22
; PRIOR APPLICATION NUMBER: 60/150,262
; PRIOR FILING DATE: 1999-08-23
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 601
; TYPE: PRT
; ORGANISM: Ricinus communis
US-09-903-012B-42

Query Match      22.1%; Score 61; DB 2; Length 601;
Best Local Similarity 29.2%; Pred. No. 5;
Matches 14; Conservative 12; Mismatches 20; Indels 2; Gaps 2;

QY      2 TLGHFKEQLSKKG-NYRY-YFKKASDEFACGAVFEEIWDDETVPME 47
DB      399 TFSEFEKELTAGKSYSVKYGREAPQELVRGYLYLEAVWRDEGKIPSF 446

Search completed: April 20, 2006, 15:32:30
Job time : 4.26121 secs

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GenCore version 5.1.7.
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OM protein - protein search, using sw model

Run on: April 20, 2006, 15:57:53 ; Search time 17.7177 Seconds
(without alignments)
1202.714 Million cell updates/sec

Title: US-09-587-574-5

Perfect score: 276

Sequence: 1 LTUGHFKQLSKKGNRYYP.....VFEEIWDETVLPMEGRIL 51

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA Main:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	272	98.6	155	4	US-10-106-698-5828
2	272	98.6	347	4	Sequence 5828, Ap
3	272	98.6	843	5	Sequence 2846, Ap
4	272	98.6	843	5	Sequence 1797, Ap
5	195	70.7	842	3	Sequence 116, App
6	191	69.2	826	4	Sequence 8, Appli
7	191	69.2	862	4	Sequence 36, Appl
8	191	69.2	900	4	Sequence 35, Appl
9	191	69.2	900	4	Sequence 91, Appl
10	191	69.2	900	5	Sequence 670, App
11	191	69.2	900	5	Sequence 670, App
12	191	69.2	900	5	Sequence 670, App
13	191	69.2	912	4	Sequence 270, App
14	111	40.2	211	4	Sequence 2052, Ap
15	111	40.2	437	4	Sequence 2273, Ap
16	111	40.2	472	4	Sequence 300, App
17	109.5	39.7	623	4	Sequence 12, Appl
18	109.5	39.7	623	6	Sequence 2028, Ap
19	102	37.0	736	5	Sequence 43, Appl
20	95.5	34.6	595	4	Sequence 18, Appl
21	95.5	34.6	716	5	Sequence 41, Appl
22	95	34.4	198	5	Sequence 465, App
23	95	34.4	670	5	Sequence 42, Appl
24	95	34.4	695	4	Sequence 3, Appli
25	95	34.4	695	4	Sequence 3, Appli
26	90.5	32.8	341	5	Sequence 464, App
27	85	30.8	745	6	Sequence 3015, Ap

28 71.5 25.9 657 5 US-10-732-923-1377 Sequence 1377, Ap
29 69 25.0 150 3 US-09-764-861-40 Sequence 40, Appl
30 69 25.0 150 3 US-09-764-861-40 Sequence 40, Appl
31 69 25.0 150 4 US-10-103-313-406 Sequence 406, App
32 69 25.0 150 4 US-10-115-928-40 Sequence 40, Appl
33 61.5 22.3 528 4 US-10-425-115-208133 Sequence 208133,
34 61 22.1 601 3 US-09-895-752-42 Sequence 42, Appl
35 61 22.1 601 3 US-09-887-586A-42 Sequence 42, Appl
36 61 22.1 601 3 US-09-903-012-42 Sequence 42, Appl
37 61 22.1 601 3 US-09-900-797-42 Sequence 42, Appl
38 61 22.1 601 3 US-09-893-820-42 Sequence 393, App
39 61 22.1 1896 4 US-10-296-734-393 Sequence 405, App
40 61 22.1 5747 4 US-10-296-734-405 Sequence 1044, Ap
41 60.5 21.9 367 5 US-10-501-282-1044 Sequence 1044, Ap
42 60.5 21.9 1337 3 US-09-803-126-1 Sequence 20438, A
43 59.5 21.6 498 4 US-10-369-493-20438 Sequence 31, Appl
44 59 21.4 504 4 US-10-359-369-31 Sequence 2, Appli
45 59 21.4 511 3 US-09-773-882-2

ALIGNMENTS

RESULT 1

US-10-106-698-5828
; Sequence 5828, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypepti
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 5828
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (5)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (7)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (12)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (48)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-106-698-5828

Query Match 98.6%; Score 272; DB 4; Length 155;

Best Local Similarity 98.0%; Pred. No. 7.5e-29;

Matches 50; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTUGHFKQLSKKGNRYYPFKASDEPACCAVFEEIWDETVLPMEGRIL 51

Db 98 LTUGHFKQLSKKGNRYYPFKASDEPACCAVFEEIWDETVLPMEGRIL 148

RESULT 2

US-10-264-049-2846

; Sequence 2846, Application US/10264049

; Publication No. US20040005579A1

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Query Match          98.6%; Score 272; DB 5; Length 843;
Best Local Similarity 98.0%; Pred. No. 5.3e-28;
Matches 50; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1   LTLGHFKQEQLSKGKNRYYPFKKASDFACGAVFEEIWDDETLPWMEGRIL 51
        |||
Db       786 LTLGHFKQEQLSKGKNRYYPFKKASDFACGAVFEEIWDDETLPWMEGRIL 836

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US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US2004019181A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTO
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2

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; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

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Query Match 69.2%; Score 191; DB 4; Length 826;
Best Local Similarity 66.7%; Pred. No. 6.1e-17;
Matches 34; Conservative 9; Mismatches 8; Indels

Qy 1 LTLGHFKEQLSKGNRYRYFKKASDEFACGAVFEIWDDETLPVMEGRIL 51
: ||| ||| : ||| : ||| ||| ||| ||| : ||| : ||| : |||
Db 769 VTIGQFKELLTKKGSYRYFYFKVSDFDCGVVFEEVRDEAVLPVEEKII 819

RESULT 7
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES.

Query Match 69.2%; Score 191; DB 4; Length 862;
Best Local Similarity 66.7%; Pred. NO. 6.4e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

[illegible]

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RESULT 8
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; FILE REFERENCE: 032796-021
; CURRENT APPLICATION NUMBER: US/10/374,979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/543,771
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 109
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-374-979-91

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Query Match 69.2%; Score 191; DB 4; Length 900;

Best Local Similarity 66.7%; Pred. No. 6.7e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

Qy 1 LTLGHFKQLSKKGNRYYYFKASDEFACGAVFEEIWDDETVLPMEGRIL 51
:
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Db 843 VTLGPKELLTKKGSYRYFFKKVSDFDCGVFEEVREDEAVLPVEEKII 893

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RESULT 9
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182.936A

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Query Match: 69.2%; Score 191; DB 4; Length 900;
Best Local Similarity 66.7%; Pred. No. 6.7e-17;

QY 1 LTLGHFKEQLSKKGNRYYYFKASDEFAAGVFEIWDDETVLPMYEGRIL 51
: : : : : : : : : : : : : : : : : :
dh VTI.GOPKEILLTKGSRYYYFKKVSDFDGCVVFEVRDEAVLPVFEEKII 893

RESULT 10
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: babij, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477, 238A

LENGTH: 900


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RESULT 15
US-10-094-749-2273
; Sequence 2273, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOUYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2273
; LENGTH: 437
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2273

Query Match . 40.2%; Score 111; DB 4; Length 437;
Best Local Similarity 43.1%; Pred. No. 2.5e-06;
Matches 22; Conservative 12; Mismatches 15; Indels 2;

Qy 1 LTLGLHFQKLSKGNRYFFKASDFACGAVFEIWDDETVLPMYEGRIL 51
:| | | | : : : | | | | | | | | | | | | | | | | | | | |
Db 379 VTLDKFDKAAIDREGNHRHFVKALDPEF--GTVKEEIFHDDDAIPGWESKIV 427

Search completed: April 20, 2006, 16:06:44
Job time : 18.7177 secs

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SEQ ID NO 888
LENGTH: 748
TYPE: PRT
ORGANISM: Homo sapiens
US-10-821-234-888

Query Match 34.6%; Score 95.5; DB 6; Length 748;
Best Local Similarity 41.3%; Pred. No. 0.00011;
Matches 21; Conservative 11; Mismatches 16; Indels 3; Gaps 2;
Qy 1 LTGHPKEQLSKGNRYRFFKASDEFACGAVFEEIWDDETLPVMEGRIL 51
Db 60 VTLLADFKVLSNRPVHAYKFFKSMDDQF--GVVKEEIFDDNAKLPFCFNGRVV 107

RESULT 3
US-10-485-788A-497
Sequence 497, Application US/10485788A
Publication No. US20050282743A1
GENERAL INFORMATION:
APPLICANT: Lu, Peter S.
APPLICANT: Rabinowitz, Joshua D.
APPLICANT: Schweizer, Johannes
APPLICANT: Carrick, Deanna Marie
APPLICANT: Arbor Vita Corporation
TITLE OF INVENTION: Molecular Interactions in Cells
FILE REFERENCE: 20054-003320US
CURRENT APPLICATION NUMBER: US/10/485,788A
CURRENT FILING DATE: 2004-02-03
PRIOR APPLICATION NUMBER: US 60/309,841
PRIOR FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: US 60/360,061
PRIOR FILING DATE: 2002-02-25
PRIOR APPLICATION NUMBER: WO PCT/US02/24655
PRIOR FILING DATE: 2002-08-02
NUMBER OF SEQ ID NOS: 841
SOFTWARE: PatentIn version 3.1
SEQ ID NO 497
LENGTH: 198
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Dishevelled 1 (DVL1) Construct (N) aa 1 - aa 197
US-10-485-788A-497

Query Match 34.4%; Score 95; DB 6; Length 198;
Best Local Similarity 39.6%; Pred. No. 2.8e-05;
Matches 21; Conservative 10; Mismatches 18; Indels 4; Gaps 2;
Qy 1 LTGHPKEQLSKK--GNRYRFFKASDEFACGAVFEEIWDDETLPVMEGRIL 51
Db 28 VTLLADFKVLSNRPVHAYKFFKSMDDQF--GVVKEEIFDDNAKLPFCFNGRVV 78

RESULT 4
US-10-485-788A-496
Sequence 496, Application US/10485788A
Publication No. US20050282743A1
GENERAL INFORMATION:
APPLICANT: Lu, Peter S.
APPLICANT: Rabinowitz, Joshua D.
APPLICANT: Schweizer, Johannes
APPLICANT: Carrick, Deanna Marie
APPLICANT: Arbor Vita Corporation
TITLE OF INVENTION: Molecular Interactions in Cells
FILE REFERENCE: 20054-003320US
CURRENT APPLICATION NUMBER: US/10/485,788A
CURRENT FILING DATE: 2004-02-03
PRIOR APPLICATION NUMBER: US 60/309,841
PRIOR FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: US 60/360,061
PRIOR FILING DATE: 2002-02-25
PRIOR APPLICATION NUMBER: WO PCT/US02/24655

PRIOR FILING DATE: 2002-08-02
NUMBER OF SEQ ID NOS: 841
SOFTWARE: PatentIn version 3.1
SEQ ID NO 496
LENGTH: 341
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Dishevelled 1 (DVL1) Construct (N-P) aa 1 - aa 341
US-10-485-788A-496

Query Match 32.8%; Score 90.5; DB 6; Length 341;
Best Local Similarity 41.2%; Pred. No. 0.00021;
Matches 21; Conservative 9; Mismatches 20; Indels 1; Gaps 1;
Qy 1 LTGHPKEQLSKGNRYRFFKASDEFACGAVFEEIWDDETLPVMEGRIL 51
Db 28 VTLLADFKVLSNRPVHAYKFFKSMDDQ--DFGVVKEEIFDDNAKLPFCFNGRVV 77

RESULT 5
US-11-096-568A-5817
Sequence 5817, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptide
TITLE OF INVENTION: Therby
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 5817
LENGTH: 240
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(240)
OTHER INFORMATION: Ceres Seq. ID no. 14311913
US-11-096-568A-5817

Query Match 20.8%; Score 57.5; DB 7; Length 240;
Best Local Similarity 28.0%; Pred. No. 3.8;
Matches 14; Conservative 9; Mismatches 20; Indels 7; Gaps 1;
Qy 1 LTGHPKEQLSKGNRYRFF-----KKASDEFACGAVFEEIWDDETVL 43
Db 1 MALDHFETVHQGNKWSSEIIADSDRNASGDFDCNLCLECVQDPVWTL 50

RESULT 6
US-11-087-099-6318
Sequence 6318, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 6318
LENGTH: 205
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(205)
OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-6318

Query Match 20.1%; Score 55.5; DB 7; Length 205;


```
; Best Local Similarity 34.3%; Pred. No. 5.9;
Matches 12; Conservative 8; Mismatches 12; Indels 3; Gaps 1;

Qy 8 EQLSKGNRYRYFKKASDEFACGAVFEEIWDDEV 42
   :||||| : : : : : : : : : : : : : :
Db 51 KQTKGNLRYYPYNINWY---GLFPQTWEDPTL 82

RESULT 7
US-11-087-099-589
; Sequence 589, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 589
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(315)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-589

Query Match 20.1%; Score 55.5; DB 7; Length 315;
Best Local Similarity 34.3%; Pred. No. 9.7;
Matches 12; Conservative 8; Mismatches 12; Indels 3; Gaps 1;

Qy 8 EQLSKGNRYRYFKKASDEFACGAVFEEIWDDEV 42
   :||||| : : : : : : : : : : : : : :
Db 146 KQTKGNLRYYPYNINWY---GLFPQTWEDPTL 177

RESULT 8
US-11-126-313-35
; Sequence 35, Application US/11126313
; Publication No. US20050288489A1
; GENERAL INFORMATION:
; APPLICANT: Hirsch, Joel
; TITLE OF INVENTION: VOLTAGE-DEPENDENT CALCIUM CHANNEL BETA SUBUNIT FUNCTIONAL CORE
; FILE REFERENCE: P-6758-US
; CURRENT APPLICATION NUMBER: US/11/126,313
; CURRENT FILING DATE: 2005-05-11
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 35
; LENGTH: 430
; TYPE: PRT
; ORGANISM: Anopheles gambiae
US-11-126-313-35

Query Match 19.9%; Score 55; DB 7; Length 430;
Best Local Similarity 40.0%; Pred. No. 16;
Matches 10; Conservative 5; Mismatches 5; Indels 4; Gaps 1;

Qy 17 RYFVKASDEFAC----GAVFEEIW 37
   ||| : : : : : : : : : : : : : :
Db 232 RIVFSAFNRFCIVAGSIFEVW 256

RESULT 9
US-11-126-313-36
; Sequence 36, Application US/11126313
; Publication No. US20050288489A1
; GENERAL INFORMATION:
; APPLICANT: Hirsch, Joel
; TITLE OF INVENTION: VOLTAGE-DEPENDENT CALCIUM CHANNEL BETA SUBUNIT FUNCTIONAL CORE
; FILE REFERENCE: P-6758-US
```

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; CURRENT APPLICATION NUMBER: US/11/126,313
; CURRENT FILING DATE: 2005-05-11
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 430
; TYPE: PRT
; ORGANISM: Anopheles gambiae
US-11-126-313-36

Query Match 19.9%; Score 55; DB 7; Length 430;
Best Local Similarity 40.0%; Pred. No. 16;
Matches 10; Conservative 5; Mismatches 6; Indels 4; Gaps 1;

Qy 17 RYFVKASDEFAC----GAVFEEIW 37
   ||| : : : : : : : : : : : : : :
Db 232 RIVFSAFNRFCIVAGSIFEVW 256

RESULT 10
US-11-079-463-5607
; Sequence 5607, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5607
; LENGTH: 183
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-5607

Query Match 19.6%; Score 54; DB 7; Length 183;
Best Local Similarity 41.7%; Pred. No. 8.3;
Matches 10; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

Qy 25 DEFACGAVFEEIWDDEVLPMEG 48
   :||| : : : : : : : : : : : : : :
Db 68 EEFGCIVVIENVFGKQVLPQEG 91

RESULT 11
US-11-087-099-8397
; Sequence 8397, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8397
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Chlamydomonas reinhardtii
US-11-087-099-8397

Query Match 19.6%; Score 54; DB 7; Length 612;
Best Local Similarity 22.7%; Pred. No. 33;
Matches 10; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

Qy 7 KEQLSKGNRYRYFKKASDEFACGAVFEEIWDDEVLPMEGRI 50
   :||| : : : : : : : : : : : : : :
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Db      374  RDSLDKRTDKREFLYTRDQLECCATHDELWNAQAQLEWVHVGRM 417

RESULT 12
US-10-995-561-851
; Sequence 851, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 851
; LENGTH: 1178
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-851

Query Match          19.6%; Score 54; DB 6; Length 1178;
Best Local Similarity 30.8%; Pred.No. 70;
Matches 12; Conservative 8; Mismatches 17; Indels 2; Gaps 1;

QY      1  LTLGHFKEQLSKGNRYRYFKKASDEFACGAVFEEIWDD 39
      : : : : : : : : : : : : : : : : : : : : : :
DB      852  VSFQSKLIRVENFAYFKKQADSNGC--FAEYED 888

RESULT 13
US-11-096-568A-27907
; Sequence 27907, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 27907
; LENGTH: 594
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(594)
; OTHER INFORMATION: Ceres Seq. ID no. 2133278
US-11-096-568A-27907

Query Match          19.4%; Score 53.5; DB 7; Length 594;
Best Local Similarity 34.8%; Pred.No. 37;
Matches 16; Conservative 5; Mismatches 14; Indels 11; Gaps 1;

QY      6  FKEQLSKGNRYRYFKKASDEFACGAVFEEIWDDDETLPMPYEGRIL 51
      | | | | | | | | | | | | | | | | | | : |
DB      373  FLEKLKKKGIEVLVMDAIDEYAIQOLKE-----PEGKKL 407

RESULT 14
US-11-096-568A-27906
; Sequence 27906, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A

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